

Tel: 400-999-8863 
 ■ Emall:Upingbio.163.com

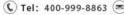


## S4A7 Polyclonal Antibody

Immunogen   Synthesized peptide derived from part region of human protein		
Reactivity         Human; Mouse; Rat           Applications         WB; ELISA           Gene Name         SLC4A7 BT NBC2 NBC2B NBC3 SBC2 SLC4A6           Protein Name         Sodium bicarbonate cotransporter 3 (Sodium bicarbonate cotransporter) (Solute carrie family 4 member 7)           Immunogen         Synthesized peptide derived from part region of human protein           Specificity         S4A7 Polyclonal Antibody detects endogenous levels of protein.           Formulation         Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.           Source         Polyclonal, Rabbit, IgG           Purification         The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.           Dilution         WB 1:500-2000 ELISA 1:5000-20000           Concentration         1 mg/ml           Purity         ≥90%           Storage Stability         -20°C/1 year           Synonyms         Basolateral cell membrane; Multi-pass membrane protein. Apical cell membrane Multi-pass membrane protein. Cell projection, stereocilium. Also described at apical cell membrane. Localizes to the stereocilia of cochlear outer hair cells art to the lateral membrane of occhlear inner hair cells (By similarity).           Tissue Specificity         Highly expressed in testis and spleen. Also expressed in retina, colon, small intestine, ovary, thymus, prostate, muscle, heart and kidney. Isoform 1 is expressed in skeletal multi muscle and heart muscle. <td>Catalog No</td> <td>YP-Ab-06198</td>	Catalog No	YP-Ab-06198
Applications  WB;ELISA  Gene Name  SLC4A7 BT NBC2 NBC2B NBC3 SBC2 SLC4A6  Protein Name  Sodium bicarbonate cotransporter 3 (Sodium bicarbonate cotransporter 2) (Sodium bicarbonate cotransporter 2b) (Bicarbonate transporter) (Solute carrie family 4 member 7)  Immunogen  Synthesized peptide derived from part region of human protein  Specificity  S4A7 Polyclonal Antibody detects endogenous levels of protein.  Formulation  Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.  Source  Polyclonal, Rabbit, IgG  Purification  The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.  Dilution  WB 1:500-2000 ELISA 1:5000-20000  Concentration  1 mg/ml  290%  Storage Stability  -20°C/1 year  Synonyms  Observed Band  133kD  Cell Pathway  Basolateral cell membrane: Multi-pass membrane protein. Apical cell membrane Multi-pass membrane protein. Cell projection, stereocilium. Also described at a pical cell membrane. Localizes to the stereocilia of cochlear outer hair cells are to the lateral membrane of cochlear inner hair cells (By similarity).  Tissue Specificity  Highly expressed in testis and spleen. Also expressed in retina, colon, small intestine, ovany, thymus, prostate, muscle, heart and kidney. Isoform 1 is expressed in skeletal muscle and heart muscle.  Function  domain:The PDZ-binding motif mediates interaction with the CFTR, SLC9A3R1/EBP50 complex and probably with USH1C, enzyme regulation:Transporter activity is regulated by CA2/carbonic anhydrase 2, cAMf and PKA. Insensitive to stilbene derivatives. PubMed:10347222 states it is inhibited by 5-(N-ethyl-N-isopropyl)-amilioride (EIPA), function:Electroneutral sodium- and bicarbonate-dependent cotransporter with a NaPt-LOG3(-) 1:1 stoichiometry. Regulates intracellular pH and may play a role in bicarbonate salvage in secretory epithelia. May also have an associated sodium- Annel activity. PTM:N-glycosylated, similarity:Belongs to the anion exchanger (TC	Isotype	IgG
Gene Name         SLC4A7 BT NBC2 NBC2B NBC3 SBC2 SLC4A6           Protein Name         Sodium bicarbonate cotransporter 3 (Sodium bicarbonate cotransporter) (Solute carrie family 4 member 7)           Immunogen         Synthesized peptide derived from part region of human protein           Specificity         S4A7 Polyclonal Antibody detects endogenous levels of protein.           Formulation         Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.           Source         Polyclonal, Rabbit, IgG           Purification         The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.           Dilution         WB 1:500-2000 ELISA 1:5000-2000           Concentration         1 mg/ml           Purity         ≥90%           Storage Stability         -20°C/1 year           Synonyms         Observed Band         133kD           Cell Pathway         Basolateral cell membrane; Multi-pass membrane protein. Apical cell membrane for ochiear inner hair cells (By similarity).           Tissue Specificity         Highly expressed in testis and spleen. Also expressed in retina, colon, small intestine, ovary, thymus, prostate, muscle, heart and kidney. Isoform 1 is expressed in skeletal muscle and heart muscle.           Function         domain: The PDZ-binding motif mediates interaction with the CFTR, SLC99A3R1/EBPS0 complex and probably with USH1C, enzyme regulation: Transporter activity is regulated by CA2/carbonic anhydrae 2, cA	Reactivity	Human;Mouse;Rat
Protein Name Sodium bicarbonate cotransporter 3 (Sodium bicarbonate cotransporter 2) (Sodium bicarbonate cotransporter 2b) (Bicarbonate transporter) (Solute carrie family 4 member 7)  Immunogen Synthesized peptide derived from part region of human protein  Specificity S4A7 Polyclonal Antibody detects endogenous levels of protein.  Formulation Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.  Source Polyclonal, Rabbit,IgG  Purification The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.  Dilution WB 1:500-2000 ELISA 1:5000-20000  Concentration 1 mg/ml  Purity 290% Storage Stability -20°C/1 year  Synonyms  Observed Band 133kD  Cell Pathway Basolateral cell membrane; Multi-pass membrane protein. Apical cell membrane Multi-pass membrane protein. Cell projection, stereocilium. Also described at a apical cell membrane. Localizes to the stereocilium. Also described at to the lateral membrane of cochlear inner hair cells (By similarity).  Tissue Specificity Highly expressed in testis and spleen. Also expressed in retina, colon, small intestine, ovary, thymus, prostate, muscle, heart and kidney. Isoform 1 is expressed in skeletal muscle and heart muscle.  Function  domain:The PDZ-binding motif mediates interaction with the CFTR, SLC9A3R1/EBPS0 complex and probably with USH1C, enzyme regulation:Transporter activity is regulated by CA2/carbonic anhydrae 2, cAMf and PKA. Insensitive to stilbene derivatives. PubMed:103A7222 states it is inhibited by 5-(N-ethyl-N-isopropyl)-amiloride (EIPA), function:Electroneutral solving, prostate of inservince potential and pay play a role in bicarbonate salvage in secretory epithelia. May also have an associated sodium channel activity, PTM:N-glycosylated, similarity;Belongs to the anion exchanger (TC 2A.31) flamily, subcellular location Also described at the apical cell membrane.	Applications	WB;ELISA
(Sodium bicarbonate cotransporter 2b) (Bicarbonate transporter) (Solute carrie family 4 member 7)  Immunogen  Synthesized peptide derived from part region of human protein  Specificity  S4A7 Polyclonal Antibody detects endogenous levels of protein.  Formulation  Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.  Source  Polyclonal, Rabbit, IgG  Purification  The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.  Dilution  WB 1:500-2000 ELISA 1:5000-20000  Concentration  1 mg/ml  Purity  ≥90%  Storage Stability  -20°C/1 year  Synonyms  Observed Band  133kD  Cell Pathway  Basolateral cell membrane: Multi-pass membrane protein. Apical cell membrane Multi-pass membrane protein. Cell projection, stereocilium. Also described at apical cell membrane. Localizes to the stereocilia of cochlear outer hair cells are to the lateral membrane of cochlear inner hair cells (By similarity).  Tissue Specificity  Highly expressed in testis and splene. Also expressed in retina, colon, small intestine, ovary, thymus, prostate, muscle, heart and kidney. Isoform 1 is expressed in skeletal muscle and heart muscle.  Function  Gomain: The PDZ-binding motif mediates interaction with the CFTR, SLC9A3R1/EBP50 complex and probably with USH1C, enzyme regulation: Transporter activity is regulated by CA2/carbonic anhydrase 2, cAMf and PKA. Insensitive to stilbene derivatives. PubMed: 10347222 states it is inhibited by 5 (N-ethyl-N-isopropyl)-amiloride (EIPA), function: Electroneutral sodium. and bicarbonate-dependent cotransporter with a Na(+)-HCO3(-) 1:1 stoichiometry. Regulates intracellular pH and may play a role in bicarbonate activity. PTM:N-glycosylated, similarity:Belongs to the anion exchanger (TC 2A.3.1) family, subcellular location. Also described at the apical cell membrane.	Gene Name	SLC4A7 BT NBC2 NBC2B NBC3 SBC2 SLC4A6
Specificity  S4A7 Polyclonal Antibody detects endogenous levels of protein.  Formulation  Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.  Source  Polyclonal, Rabbit, IgG  Purification  The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.  Dilution  WB 1:500-2000 ELISA 1:5000-20000  Concentration  1 mg/ml  Purity  ≥90%  Storage Stability  -20°C/1 year  Synonyms  Observed Band  133kD  Cell Pathway  Basolateral cell membrane: Multi-pass membrane protein. Apical cell membrane Multi-pass membrane protein. Cell projection, stereocilium. Also described at apical cell membrane. Localizes to the stereocilia of cochlear outer hair cells are to the lateral membrane of cochlear inner hair cells (By similarity).  Tissue Specificity  Highly expressed in testis and spleen. Also expressed in retina, colon, small intestine, ovary, thymus, prostate, muscle, heart and kidney. Isoform 1 is expressed in settlation. Transporter activity is regulated by CA2/carboic anhydrase 2, cAMf and PKA. Insensitive to stilbene derivatives. PubMed: 10347222 states it is inhibited by 5-(N-ethyl-N-isopropyl)-amiloride (EIPA). function: Electroneutral sodium- and bicarbonate-dependent cotransporter with a Na(+):HCO3(-) 1:1 stoichiometry. Regulates intracellular pH and may play a role in bicarbonate salvage in secretory epithelia. May also have an associated sodium channel activity. PTM:N-glycosylated, similarity. Belongs to the anion exchanger (TC 2.A.31) family, subcellular location: Also described at the apical cell membrane.	Protein Name	(Sodium bicarbonate cotransporter 2b) (Bicarbonate transporter) (Solute carrier
Formulation Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.  Source Polyclonal, Rabbit, IgG  Purification The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.  Dilution WB 1:500-2000 ELISA 1:5000-20000  Concentration 1 mg/ml  Purity ≥90%  Storage Stability -20°C/1 year  Synonyms  Observed Band 133kD  Cell Pathway Basolateral cell membrane; Multi-pass membrane protein. Apical cell membran Multi-pass membrane protein. Cell projection, stereocilium. Also described at ta apical cell membrane. Localizes to the stereocilia of cochlear outer hair cells are to the lateral membrane of cochlear inner hair cells (By similarity).  Tissue Specificity Highly expressed in testis and spleen. Also expressed in retina, colon, small intestine, ovary, thymus, prostate, muscle, heart and kidney. Isoform 1 is expressed in skeletal muscle and heart muscle.  domain:The PDZ-binding motif mediates interaction with the CFTR, SLC9A3R1/EBP50 complex and probably with USH1C_enzyme regulation:Transporter activity is regulated by CA2/carbonic anhydrase 2, cAMF and PKA. Insensitive to stilbene derivatives. PubMed:10347222 states it is inhibited by 5-(Ne-thyl-N-isopropyl)-amiloride (EIPA), function:Electroneutral sodium- and bicarbonate-dependent cotransporter with a Na(+):HCO3(-) 1:1 stolchiometry. Regulates intracellular pH and may play a role in bicarbonate salvage in secretory epitheliae. May also have an associated sodium channel activity.,PTM:N-glycosylated, similarity:Belongs to the anion exchanger (TC 2A.31) family, subcellular location:Also described at the apical cell membrane.	Immunogen	Synthesized peptide derived from part region of human protein
Polyclonal, Rabbit, IgG  Purification The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.  Dilution WB 1:500-2000 ELISA 1:5000-20000  Concentration 1 mg/ml  Purity ≥90%  Storage Stability -20°C/1 year  Synonyms  Observed Band 133kD  Cell Pathway Basolateral cell membrane; Multi-pass membrane protein. Apical cell membran Multi-pass membrane protein. Cell projection, stereocilium. Also described at 1 apical cell membrane. Localizes to the stereocilia of cochlear outer hair cells are to the lateral membrane of cochlear inner hair cells (By similarity).  Tissue Specificity Highly expressed in testis and spleen. Also expressed in retina, colon, small intestine, ovary, thymus, prostate, muscle, heart and kidney. Isoform 1 is expressed in skeletal muscle and heart muscle.  Function  domain:The PDZ-binding motif mediates interaction with the CFTR, SLC9A3R1/EBP50 complex and probably with USH1C, enzyme regulation:Transporter activity is regulated by CA2/carbonic anhydrase 2, cAMF and PKA. Insensitive to stilbene derivatives. PubMed:103477222 states it is inhibited by 5-(N-ethyl-N-isopropyl)-amiloride (EIPA), function:Electroneutral sodium- and bicarbonate-dependent cotransporter with a Na(+):HCO3(-) 1:1 stoichiometry. Regulates intracellular pH and may play a role in bicarbonate salvage in secretory epithelia. May also have an associated sodium channel activity. PTM:N-glycosylated., similarity:Belongs to the anion exchanger (TC 2.A.31) family, subcellular location:Also described at the apical cell membrane.	Specificity	S4A7 Polyclonal Antibody detects endogenous levels of protein.
Purification  The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.  Dilution  WB 1:500-2000 ELISA 1:5000-20000  Concentration  1 mg/ml  Purity  ≥90%  Storage Stability  -20°C/1 year  Synonyms  Observed Band  133kD  Cell Pathway  Basolateral cell membrane; Multi-pass membrane protein. Apical cell membran Multi-pass membrane protein . Cell projection, stereocilium . Also described at a apical cell membrane. Localizes to the stereocilia of cochlear outer hair cells are to the lateral membrane of cochlear inner hair cells (By similarity).  Tissue Specificity  Highly expressed in testis and spleen. Also expressed in retina, colon, small intestine, ovary, thymus, prostate, muscle, heart and kidney. Isoform 1 is expressed in skeletal muscle and heart muscle.  Function  Umarticle PDZ-binding motif mediates interaction with the CFTR, SLC9A3R1/EBP50 complex and probably with USH1C.enzyme regulation:Transporter activity is regulated by CA2/carbonic anhydrase 2, cAMF and PKA. Insensitive to stilbene derivatives. PubMed:10347222 states it is inhibited by 5-(N-ethyl-N-isopropyl)-amiloride (EIPA), function:Electroneutral sodium- and bicarbonate-dependent cotransporter with a Na(+):HCO3(-) 1:1 stoichiometry. Regulates intracellular pH and may play a role in bicarbonate salvage in secretory epithelia. May also have an associated sodium channel activity. PTM:N-glycosylated., similarity:Belongs to the anion exchanger (TC 2.A.31) family, subcellibilar location:Also described at the apical cell membrane.	Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
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Concentration       1 mg/ml         Purity       ≥90%         Storage Stability       -20°C/1 year         Synonyms         Observed Band       133kD         Cell Pathway       Basolateral cell membrane; Multi-pass membrane protein. Apical cell membran Multi-pass membrane protein. Cell projection, stereocilium. Also described at tapical cell membrane. Localizes to the stereocilia of cochlear outer hair cells are to the lateral membrane of cochlear inner hair cells (By similarity).         Tissue Specificity       Highly expressed in testis and spleen. Also expressed in retina, colon, small intestine, ovary, thymus, prostate, muscle, heart and kidney. Isoform 1 is expressed in skeletal muscle and heart muscle.         Function       domain: The PDZ-binding motif mediates interaction with the CFTR, SLC9A3R1/EBP50 complex and probably with USH1C.,enzyme regulation: Transporter activity is regulated by CA2/carbonic anhydrase 2, cAMF and PKA. Insensitive to stilbene derivatives. PubMed:10347222 states it is inhibited by 5-(N-ethyl-N-isopropyl)-amiloride (EIPA), function: Electroneutral sodium- and bicarbonate-dependent cotransporter with a Na(+):HCO3(-) 1:1 stoichiometry. Regulates intracellular pH and may play a role in bicarbonate salvage in secretory epithelia. May also have an associated sodium channel activity, PTM:N-glycosylated., similarity:Belongs to the anion exchanger (TC 2.A.31) family, subcellular location:Also described at the apical cell membrane.	Purification	·
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Synonyms  Observed Band  133kD  Cell Pathway  Basolateral cell membrane; Multi-pass membrane protein. Apical cell membrane Multi-pass membrane protein. Cell projection, stereocilium. Also described at the apical cell membrane. Localizes to the stereocilia of cochlear outer hair cells are to the lateral membrane of cochlear inner hair cells (By similarity).  Tissue Specificity  Highly expressed in testis and spleen. Also expressed in retina, colon, small intestine, ovary, thymus, prostate, muscle, heart and kidney. Isoform 1 is expressed in skeletal muscle and heart muscle.  Function  domain: The PDZ-binding motif mediates interaction with the CFTR, SLC9A3R1/EBP50 complex and probably with USH1C.,enzyme regulation: Transporter activity is regulated by CA2/carbonic anhydrase 2, cAMF and PKA. Insensitive to stilbene derivatives. PubMed:10347222 states it is inhibited by 5-(N-ethyl-N-isopropyl)-amiloride (EIPA).,function:Electroneutral sodium- and bicarbonate-dependent cotransporter with a Na(+):HCO3(-) 1:1 stoichiometry. Regulates intracellular pH and may play a role in bicarbonate salvage in secretory epithelia. May also have an associated sodium channel activity.,PTM:N-glycosylated.,similarity:Belongs to the anion exchanger (TC 2.A.31) family, subcellular location:Also described at the apical cell membrane.	Concentration	1 mg/ml
Observed Band  Cell Pathway  Basolateral cell membrane; Multi-pass membrane protein. Apical cell membrane Multi-pass membrane protein . Cell projection, stereocilium . Also described at tapical cell membrane. Localizes to the stereocilia of cochlear outer hair cells are to the lateral membrane of cochlear inner hair cells (By similarity).  Tissue Specificity  Highly expressed in testis and spleen. Also expressed in retina, colon, small intestine, ovary, thymus, prostate, muscle, heart and kidney. Isoform 1 is expressed in skeletal muscle and heart muscle.  Function  domain:The PDZ-binding motif mediates interaction with the CFTR, SLC9A3R1/EBP50 complex and probably with USH1Cenzyme regulation:Transporter activity is regulated by CA2/carbonic anhydrase 2, cAMF and PKA. Insensitive to stilbene derivatives. PubMed:10347222 states it is inhibited by 5-(N-ethyl-N-isopropyl)-amiloride (EIPA)function:Electroneutral sodium- and bicarbonate-dependent cotransporter with a Na(+):HCO3(-) 1:1 stoichiometry. Regulates intracellular pH and may play a role in bicarbonate salvage in secretory epithelia. May also have an associated sodium channel activity,.PTM:N-glycosylated.,similarity:Belongs to the anion exchanger (TC 2.A.31) family.,subcellular location:Also described at the apical cell membrane.	Purity	≥90%
Cell Pathway  Basolateral cell membrane; Multi-pass membrane protein. Apical cell membrane Multi-pass membrane protein . Cell projection, stereocilium . Also described at the apical cell membrane. Localizes to the stereocilia of cochlear outer hair cells are to the lateral membrane of cochlear inner hair cells (By similarity).  Tissue Specificity  Highly expressed in testis and spleen. Also expressed in retina, colon, small intestine, ovary, thymus, prostate, muscle, heart and kidney. Isoform 1 is expressed in skeletal muscle and heart muscle.  Function  domain: The PDZ-binding motif mediates interaction with the CFTR, SLC9A3R1/EBP50 complex and probably with USH1C.,enzyme regulation: Transporter activity is regulated by CA2/carbonic anhydrase 2, cAMF and PKA. Insensitive to stilbene derivatives. PubMed: 10347222 states it is inhibited by 5-(N-ethyl-N-isopropyl)-amiloride (EIPA)., function: Electroneutral sodium- and bicarbonate-dependent cotransporter with a Na(+): HCO3(-) 1:1 stoichiometry. Regulates intracellular pH and may play a role in bicarbonate salvage in secretory epithelia. May also have an associated sodium channel activity., PTM:N-glycosylated., similarity: Belongs to the anion exchanger (TC 2.A.31) family., subcellular location: Also described at the apical cell membrane.	Storage Stability	-20°C/1 year
Cell Pathway  Basolateral cell membrane; Multi-pass membrane protein. Apical cell membrane Multi-pass membrane protein. Cell projection, stereocilium. Also described at tapical cell membrane. Localizes to the stereocilia of cochlear outer hair cells are to the lateral membrane of cochlear inner hair cells (By similarity).  Tissue Specificity  Highly expressed in testis and spleen. Also expressed in retina, colon, small intestine, ovary, thymus, prostate, muscle, heart and kidney. Isoform 1 is expressed in skeletal muscle and heart muscle.  Gomain: The PDZ-binding motif mediates interaction with the CFTR, SLC9A3R1/EBP50 complex and probably with USH1C., enzyme regulation: Transporter activity is regulated by CA2/carbonic anhydrase 2, cAMF and PKA. Insensitive to stilbene derivatives. PubMed: 10347222 states it is inhibited by 5-(N-ethyl-N-isopropyl)-amiloride (EIPA)., function: Electroneutral sodium- and bicarbonate-dependent cotransporter with a Na(+): HCO3(-) 1:1 stoichiometry. Regulates intracellular pH and may play a role in bicarbonate salvage in secretory epithelia. May also have an associated sodium channel activity., PTM:N-glycosylated., similarity: Belongs to the anion exchanger (TC 2.A.31) family., subcellular location: Also described at the apical cell membrane.	Synonyms	
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## UpingBio technology Co.,Ltd







membrane of cochlear inner hair cells., subunit: Interacts with CFTR through SLC9A3R1/EBP5 This locus encodes a sodium bicarbonate cotransporter. The encoded Background transmembrane protein appears to transport sodium and bicarbonate ions in a 1:1 ratio, and is thus considered an electroneutral cotransporter. The encoded protein likely plays a critical role in regulation of intracellular pH involved in visual and auditory sensory transmission. Alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Apr 2012], Avoid repeated freezing and thawing! matters needing attention This product can be used in immunological reaction related experiments. For **Usage suggestions** more information, please consult technical personnel.

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