



SLC12A4 Polyclonal Antibody

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|---------------------------|---|
| Catalog No | YP-Ab-01193 |
| Isotype | IgG |
| Reactivity | Human;Rat;Mouse |
| Applications | WB;IHC;IF |
| Gene Name | SLC12A4 |
| Protein Name | Solute carrier family 12 member 4 (Electroneutral potassium-chloride cotransporter 1) (Erythroid K-Cl cotransporter 1) (hKCC1) |
| Immunogen | Synthetic Peptide of SLC12A4 AA range: 658-708 |
| Specificity | SLC12A4 protein(A248) detects endogenous levels of SLC12A4 |
| Formulation | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| Source | Polyclonal, Rabbit,IgG |
| Purification | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using specific immunogen. |
| Dilution | WB 1:1000-2000, IHC 1:100-200. IF 1:50-200 |
| Concentration | 1 mg/ml |
| Purity | ≥90% |
| Storage Stability | -20°C/1 year |
| Synonyms | Solute carrier family 12 member 4 (Electroneutral potassium-chloride cotransporter 1;Erythroid K-Cl cotransporter 1;hKCC1) |
| Observed Band | 150kD |
| Cell Pathway | Membrane; Multi-pass membrane protein. |
| Tissue Specificity | Ubiquitous. Levels are much higher in erythrocytes from patients with Hb SC and Hb SS compared to normal AA erythrocytes. This may contribute to red blood cell dehydration and to the manifestation of sickle cell disease by increasing the intracellular concentration of HbS. Isoform 1 was not detected in circulating reticulocytes. |
| Function | alternative products:Experimental confirmation may be lacking for some isoforms,function:Mediates electroneutral potassium-chloride cotransport when activated by cell swelling. May contribute to cell volume homeostasis in single cells. May be involved in the regulation of basolateral Cl(-) exit in NaCl absorbing epithelia (By similarity). Isoform 4 has no transport activity.,PTM:N-glycosylated.,similarity:Belongs to the SLC12A transporter family.,subunit:Homomultimer and heteromultimer with other K-Cl cotransporters.,tissue specificity:Ubiquitous. Levels are much higher in erythrocytes from patients with Hb SC and Hb SS compared to normal AA erythrocytes. This may contribute to red blood cell dehydration and to the manifestation of sickle cell disease by increasing the intracellular concentration of HbS. Isoform 1 was not detected in circulating reticulocytes., |



Background

This gene encodes a member of the SLC12A transporter family. The encoded protein mediates the coupled movement of potassium and chloride ions across the plasma membrane. This gene is expressed ubiquitously. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jan 2013],

matters needing attention

Avoid repeated freezing and thawing!

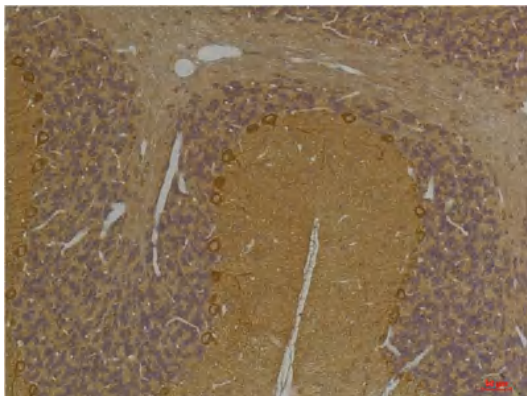
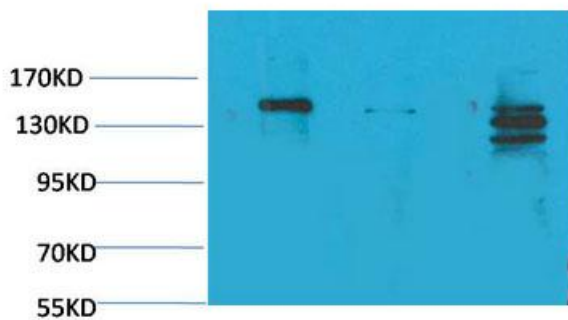
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images

1 2 3

Western blot analysis of 1) Rat Brain Tissue, 2) Mouse Brain Tissue, 3) Hela with SLC12A4 Rabbit pAb diluted at 1:2,000.



Immunohistochemical analysis of paraffin-embedded Rat Brain Tissue using SLC12A4 Rabbit pAb diluted at 1:200.



Immunohistochemical analysis of paraffin-embedded Mouse Brain Tissue using SLC12A4 Rabbit pAb diluted at 1:200.