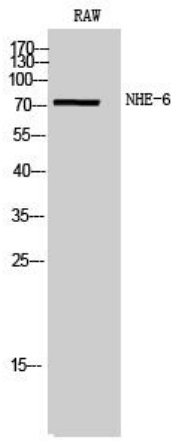
NHE-6 Polyclonal Antibody

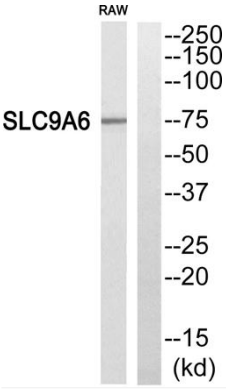
Catalog No	YP-Ab-16482
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;ELISA
Gene Name	SLC9A6
Protein Name	Sodium/hydrogen exchanger 6
Immunogen	The antiserum was produced against synthesized peptide derived from human SLC9A6. AA range:551-600
Specificity	NHE-6 Polyclonal Antibody detects endogenous levels of NHE-6 protein.
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 epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/40000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	SLC9A6; KIAA0267; NHE6; Sodium/hydrogen exchanger 6; Na(+)/H(+) exchanger 6; NHE-6; Solute carrier family 9 member 6
Observed Band	75kD
Cell Pathway	Endosome membrane ; Multi-pass membrane protein . Is present in the recycling compartments including early and recycling endosomes, and only appears transiently on the plasma membrane.; [Isoform 2]: Recycling endosome membrane ; Multi-pass membrane protein .
Tissue Specificity	Ubiquitous; but is most abundant in mitochondrion-rich tissues such as brain, skeletal muscle and heart.
Function	caution:Was initially identified as a mitochondrial inner membrane protein (PubMed:9507001), but was later shown to be localized in early and recycling endosomes and not mitochondria (PubMed:11940519).,disease:Defects in SLC9A6 are the cause of mental retardation syndromic X-linked Christianson type (MRXSC) [MIM:300243]; also known as MRXS-Christianson or X-linked Angelman-like syndrome. The phenotype is characterized by profound mental retardation, epilepsy, ataxia, and microcephaly, and showed phenotypic overlap with Angelman syndrome.,function:Electroneutral exchange of protons for Na(+) and K(+) across the early and recycling endosome membranes. Contributes to calcium homeostasis.,similarity:Belongs to the monovalent cation:proton antiporter 1 (CPA1) transporter (TC 2.A.36) family.,subcellular location:Is present in the recycling compartments including early and recycling endosomes,

Background	This gene encodes a sodium-hydrogen exchanger that is amember of the solute carrier family 9. The encoded protein localizes to early and recycling endosomes and may be involved in regulating endosomal pH and volume. Defects in this gene are associated with X-linked syndromic mental retardation, Christianson type. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Apr 2010],
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.

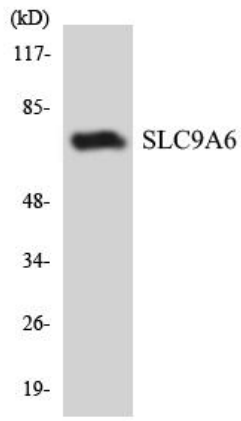
Products Images



Western Blot analysis of RAW cells using NHE-6 Polyclonal Antibody



Western blot analysis of SLC9A6 Antibody. The lane on the right is blocked with the SLC9A6 peptide.



Western blot analysis of the lysates from COLO205 cells using SLC9A6 antibody.