



CLC-4 Polyclonal Antibody

Catalog No	YP-Ab-16399
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IF;ELISA
Gene Name	CLCN4
Protein Name	H(+)/Cl(-) exchange transporter 4
Immunogen	The antiserum was produced against synthesized peptide derived from human CLCN4. AA range:221-270
Specificity	CLC-4 Polyclonal Antibody detects endogenous levels of CLC-4 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. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/40000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CLCN4; H(+)/Cl(-) exchange transporter 4; Chloride channel protein 4; CIC-4; Chloride transporter CIC-4
Observed Band	85kD
Cell Pathway	Early endosome membrane ; Multi-pass membrane protein . Late endosome membrane ; Multi-pass membrane protein . Endoplasmic reticulum membrane ; Multi-pass membrane protein . Lysosome membrane ; Multi-pass membrane protein . Recycling endosome membrane ; Multi-pass membrane protein . Localizes to late endosome membrane, lysosome membrane and recycling endosome membrane in the presence of CLCN3. .
Tissue Specificity	Abundant in skeletal muscle and also detectable in brain and heart.
Function	function:Proton-coupled chloride transporter. Functions as antiport system and exchanges chloride ions against protons.,miscellaneous:The CLC channel family contains both chloride channels and proton-coupled anion transporters that exchange chloride or another anion for protons. The presence of conserved gating glutamate residues is typical for family members that function as antiporters.,similarity:Belongs to the chloride channel (TC 2.A.49) family.,similarity:Contains 2 CBS domains.,tissue specificity:Abundant in skeletal muscle and also detectable in brain and heart.,



Background

chloride voltage-gated channel 4 (CLCN4) Homo sapiens The CLCN family of voltage-dependent chloride channel genes comprises nine members (CLCN1-7, Ka and Kb) which demonstrate quite diverse functional characteristics while sharing significant sequence homology. Chloride channel 4 has an evolutionary conserved CpG island and is conserved in both mouse and hamster. This gene is mapped in close proximity to APXL (Apical protein Xenopus laevis-like) and OA1 (Ocular albinism type I), which are both located on the human X chromosome at band p22.3. The physiological role of chloride channel 4 remains unknown but may contribute to the pathogenesis of neuronal disorders. Alternate splicing results in two transcript variants that encode different proteins. [provided by RefSeq, Mar 2012],

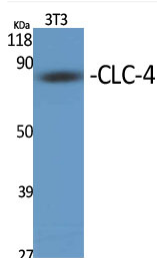
matters needing attention

Avoid repeated freezing and thawing!

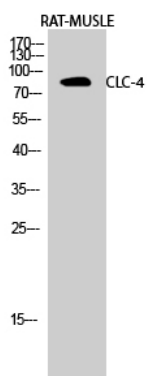
Usage suggestions

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

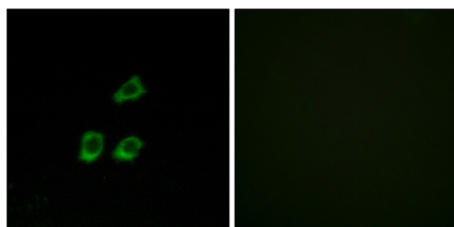
Products Images



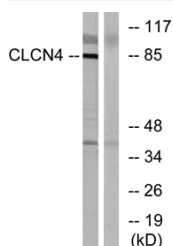
Western Blot analysis of various cells using CLC-4 Polyclonal Antibody diluted at 1:500



Western Blot analysis of RAT-MUSCLE cells using CLC-4 Polyclonal Antibody diluted at 1:500



Immunofluorescence analysis of HUVEC cells, using CLCN4 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from MCF-7 cells, using CLCN4 Antibody. The lane on the right is blocked with the synthesized peptide.