

CLCN4 Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51090

Product Information

Application	WB
Primary Accession	P51793
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	84917

Additional Information

Gene ID	1183
Other Names	H(+)/Cl(-) exchange transporter 4, Chloride channel protein 4, ClC-4, Chloride transporter CIC-4, CLCN4
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human CLCN4. The exact sequence is proprietary.
Dilution	WB~~ 1:1000
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
Storage	Store at -20 °C. Stable for 12 months from date of receipt

Protein Information

Name	CLCN4
Function	Strongly outwardly rectifying, electrogenic H(+)/Cl(-)-exchanger which mediates the exchange of chloride ions against protons (PubMed: 18063579 , PubMed: 23647072 , PubMed: 25644381 , PubMed: 27550844 , PubMed: 28972156). The CLC channel family contains both chloride channels and proton-coupled anion transporters that exchange chloride or another anion for protons (PubMed: 29845874). The presence of conserved gating glutamate residues is typical for family members that function as antiporters (PubMed: 29845874).
Cellular Location	Early endosome membrane {ECO:0000250 UniProtKB:P51794}; 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. Note=Localizes to late endosome membrane, lysosome membrane and recycling endosome membrane in the

presence of CLCN3

Tissue Location	Abundant in skeletal muscle and also detectable in brain and heart
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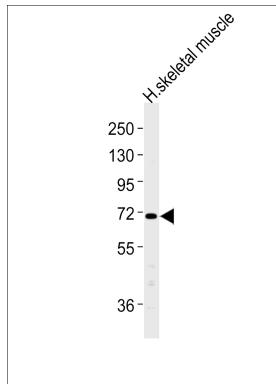
Background

Proton-coupled chloride transporter. Functions as antiport system and exchanges chloride ions against protons.

References

- van Slegtenhorst M.A.,et al.Hum. Mol. Genet. 3:547-552(1994).
Kawasaki M.,et al.Am. J. Physiol. 277:C948-C954(1999).
Rae J.L.,et al.Submitted (JUL-1999) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.

Images



Anti-CHML Antibody at 1:1000 dilution + H.skeletal muscle tissue lysates Lysates/proteins at 20 µg per lane.
Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 74 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.