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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 ClC-4, CLCN4
Target/Specificity	KLH conjugated synthetic peptide derived from human CLCN4
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

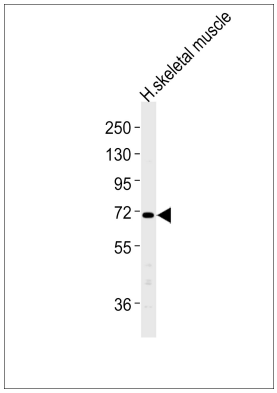
Background

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 Antibodyat 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.