10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CLC-4 Polyclonal Antibody

Catalog # AP69142

Product Information

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

Additional Information

Gene ID	1183
Other Names	CLCN4; H(+)/Cl(-) exchange transporter 4; Chloride channel protein 4; ClC-4; Chloride transporter ClC-4
Dilution	WB~~Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/40000. Not yet tested in other applications. IF~~1:50~200 ICC~~N/A E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

Protein Information

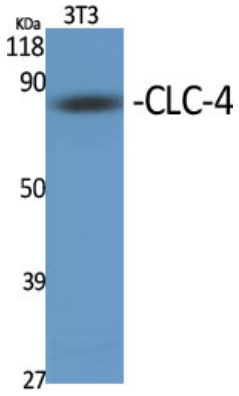
Name	CLCN4
Function	Strongly outwardly rectifying, electrogenic H(+)/Cl(-)exchanger which mediates the exchange of chloride ions against protons (PubMed:18063579, PubMed:23647072, PubMed:25644381, PubMed:27550844, PubMed:28972156). The CLC channel family contains both chloride channels and proton-coupled 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

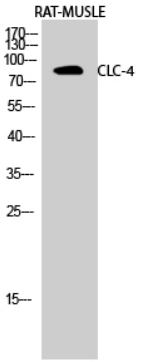
Background

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

Images



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



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