

CLCN7 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51746

Product Information

Application	WB, ICC
Primary Accession	P51798
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	88679

Additional Information

Gene ID	1186
Other Names	H(+)/Cl(-) exchange transporter 7, Chloride channel 7 alpha subunit, Chloride channel protein 7, CIC-7, CLCN7
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human CLCN7. The exact sequence is proprietary.
Dilution	WB~~1:1000 ICC~~N/A
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	CLCN7 (HGNC:2025)
Function	Slowly voltage-gated channel mediating the exchange of chloride ions against protons (PubMed: 18449189 , PubMed: 21527911). Functions as antiporter and contributes to the acidification of the lysosome lumen and may be involved in maintaining lysosomal pH (PubMed: 18449189 , PubMed: 21527911 , PubMed: 31155284). The CLC channel family contains both chloride channels and proton-coupled anion transporters that exchange chloride or another anion for protons (By similarity). The presence of conserved gating glutamate residues is typical for family members that function as antiporters (By similarity).
Cellular Location	Lysosome membrane; Multi-pass membrane protein
Tissue Location	Brain and kidney..

Background

Slowly voltage-gated channel mediating the exchange of chloride ions against protons. Functions as antiporter and contributes to the acidification of the lysosome lumen.

References

Rae J.L.,et al.Submitted (JAN-2000) to the EMBL/GenBank/DDBJ databases.

Ota T.,et al.Nat. Genet. 36:40-45(2004).

Martin J.,et al.Nature 432:988-994(2004).

Brandt S.,et al.FEBS Lett. 377:15-20(1995).

Eggermont J.,et al.Biochim. Biophys. Acta 1397:156-160(1998).

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