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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

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|---|---|
| **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 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

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|---|---|
| **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

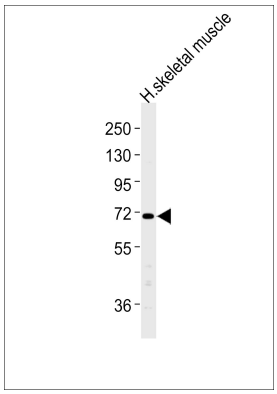
## Background

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.

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