

Rabbit anti-Human, Mouse CLCN1 Polyclonal Antibody | anti-CLCN1 antibody

CLCN1 Antibody (N-Term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA290894	Rabbit	Human, Mouse	ELISA, Western Blot, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

CLCN1; Polyclonal Antibody; CLCN1 Antibody (N-Term); Purified Rabbit Polyclonal Antibody (Pab); Chloride channel protein 1; CIC-1; Chloride channel protein; skeletal muscle; CLC1; anti-CLCN1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	Ig
Specificity	This CLCN1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 32-66 amino acids from the human region of human CLCN1.
Purity/Purification	Purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Length	988
Applicable Applications for anti-CLCN1 antibody	ELISA, WB (Western Blot), FCM/FACS (Flow Cytometry)
Tissue Location	Predominantly expressed in skeletal muscles.
Cellular Location	Cell membrane; Multi-pass membrane protein
Function	Voltage-gated chloride channel (PubMed: 8112288, PubMed: , PubMed:). Plays an important role in membrane repolarization in skeletal muscle cells after muscle contraction. The CLC channel family contains both chloride channels and proton-coupled an ion transporters that exchange chloride or another anion for protons (Probable). The absence of conserved gating glutamate residues is typical for family members that function as channels (Probable).
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



Application Data

Overlay histogram showing Hela cells stained with (AAA290894)(green line). The cells were fixed with 2% paraformaldehyde (10min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AAA290894, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed (1583138) at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was rabbit IgG1 (1?g/1x10⁶ cells) used under the same conditions. Acquisition of >10, 000 events was performed.



WB (Western Blot)

All lanes : Anti-CLCN1 Antibody (N-Term) at 1:2000 dilution
Lane 1: Human skeletal muscle lysate
Lane 2: Mouse skeletal muscle lysate
Lysates/proteins at 20 ug per lane.
Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.
Predicted band size : 109 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-CLCN1 antibody	Voltage-gated chloride channel. Chloride channels have several functions including the regulation of cell volume; membrane potential stabilization, signal transduction and transepithelial transport.
Product Categories/Family for anti-CLCN1 antibody	Primary Antibodies; Metabolism; Neuroscience; Signal Transduction
References	Steinmeyer K.,et al.EMBO J. 13:737-743(1994). Scherer S.W.,et al.Science 300:767-772(2003). Koch M.C.,et al.Science 257:797-800(1992). George A.L. Jr.,et al.Nat. Genet. 3:305-310(1993). Lorenz C.,et al.Hum. Mol. Genet. 3:941-946(1994).

NCBI AND UNIPROT INFORMATION

NCBI GI #	119433677
NCBI GeneID	1180
NCBI Accession #	NP_000074.2
NCBI GenBank Nucleotide #	NM_000083.2
UniProt Accession #	P35523; Q2M202; A4D2H5
Molecular Weight	108626
NCBI Official Full Name	chloride channel protein 1
NCBI Official Synonym Full Names	chloride voltage-gated channel 1
NCBI Official Symbol	CLCN1
NCBI Official Synonym Symbols	CLC1
NCBI Protein Information	chloride channel protein 1
UniProt Protein Name	Chloride channel protein 1
UniProt Gene Name	CLCN1
UniProt Synonym Gene Names	CLC1; CIC-1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.