

Anti-CLCN1 Antibody

Rabbit polyclonal antibody to CLCN1

Catalog # AP59921

Product Information

Application	WB
Primary Accession	P35523
Other Accession	Q64347
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	108626

Additional Information

Gene ID	1180
Other Names	CLC1; Chloride channel protein 1; CLC-1; Chloride channel protein, skeletal muscle
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human CLCN1. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	CLCN1 {ECO:0000303 PubMed:8533761, ECO:0000312 HGNC:HGNC:2019}
Function	Voltage-gated chloride channel involved in skeletal muscle excitability. Generates most of the plasma membrane chloride conductance in skeletal muscle fibers, stabilizes the resting membrane potential and contributes to the repolarization phase during action potential firing (PubMed: 12456816 , PubMed: 16027167 , PubMed: 22521272 , PubMed: 22641783 , PubMed: 26007199 , PubMed: 26502825 , PubMed: 26510092 , PubMed: 7951242 , PubMed: 8112288 , PubMed: 8130334 , PubMed: 9122265 , PubMed: 9565403 , PubMed: 9736777). Forms a homodimeric channel where each subunit has its own ion conduction pathway. Conducts double-barreled currents controlled by two types of gates, two fast glutamate gates that control each subunit independently and a slow common gate that opens and shuts off both subunits simultaneously. Has a significant open probability at muscle resting potential and is further activated upon membrane depolarization

(PubMed:[10051520](#), PubMed:[10962018](#), PubMed:[29809153](#), PubMed:[31022181](#)). Permeable to small monovalent anions with ion selectivity for chloride > thiocyanate > bromide > nitrate > iodide (PubMed:[9122265](#), PubMed:[9565403](#)).

Cellular Location

Cell membrane; Multi-pass membrane protein Cell membrane, sarcolemma {ECO:0000250|UniProtKB:Q64347}; Multi-pass membrane protein. Cell membrane, sarcolemma, T-tubule {ECO:0000250|UniProtKB:Q64347}; Multi-pass membrane protein

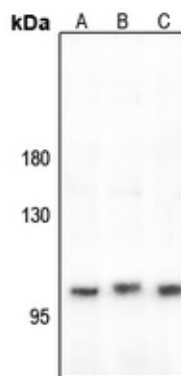
Tissue Location

Predominantly expressed in skeletal muscles.

Background

KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human CLCN1. The exact sequence is proprietary.

Images



Western blot analysis of CLCN1 expression in Hela (A), MG63 (B), mouse muscle (C) whole cell lysates.

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