

Anti-CLCN1 Antibody

Rabbit polyclonal antibody to CLCN1 Catalog # AP59921

Specification

Anti-CLCN1 Antibody - Product Information

Application WB
Primary Accession P35523
Other Accession O64347

Reactivity
Host
Rabbit
Repolitive
Rescriptive
Reactivity
Repolitive
Rescriptive
Rescriptiv

Clonality Polyclonal Calculated MW 108626

Anti-CLCN1 Antibody - Additional Information

Gene ID 1180

Other Names

CLC1; Chloride channel protein 1; ClC-1; Chloride channel protein, skeletal muscle

Target/Specificity

Recognizes endogenous levels of CLCN1 protein.

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

Anti-CLCN1 Antibody - 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:<a



href="http://www.uniprot.org/citations/26510092" target=" blank">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.

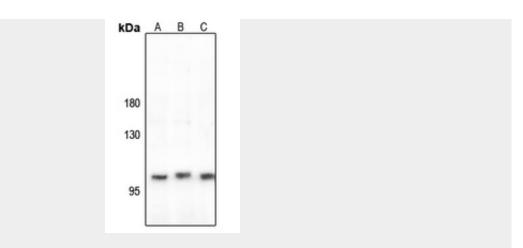
Anti-CLCN1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-CLCN1 Antibody - Images





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

Anti-CLCN1 Antibody - Background

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