

Clcn1 antibody - C-terminal region

Rabbit Polyclonal Antibody

Catalog # AI10758

Product Information

Application	WB
Primary Accession	P35524
Other Accession	NM_013147 , NP_037279
Reactivity	Human, Mouse, Rat, Rabbit, Goat, Dog, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Dog, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	110073

Additional Information

Gene ID	25688
Alias Symbol	SMCC, Clcn1
Other Names	Chloride channel protein 1, CLC-1, Chloride channel protein, skeletal muscle, Clcn1
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-Clcn1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	Clcn1 antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Clcn1
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 (By similarity) (PubMed: 1659664 , PubMed: 9565403). 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 (By similarity). Permeable to small monovalent anions with ion selectivity for chloride > thiocyanate > bromide > nitrate > iodide (PubMed:[1659664](#), PubMed:[9565403](#)).

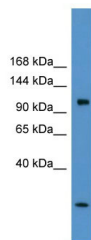
Cellular Location

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

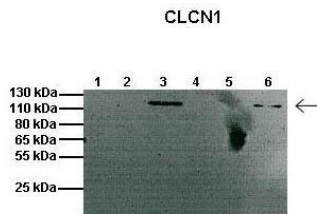
Tissue Location

Predominantly expressed in skeletal muscles.

Images



WB Suggested Anti-Clcn1 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:62500
Positive Control: Rat Brain



See Immunoblot 2 Data and customer Feedback for more Information

Lanes: 1: 20ug mouse muscle membrane fraction, 2: Empty, 3: 20ug mouse brain membrane fraction, 4: Empty, 5: 20ug mouse muscle cytosolic fraction, 6: 20ug mouse brain cytosolic fraction
Primary Antibody Dilution: 1:1000
Secondary Antibody: Anti-rabbit HRP
Secondary Antibody Dilution: 1:2000
Gene Name: Clcn1
Submitted by: Anonymous

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