CLCN1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CLCN1, Polyclonal Antibody
Full Product Name	CLCN1 Polyclonal Antibody
Product Gene Name	anti-CLCN1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	108kDa
OMIM	118425
3D Structure	ModBase 3D Structure for P35523
Immunogen	Recombinant protein of human CLCN1 (NP_000074.2).
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CLCN1 antibody	Western Blot (WB)
Application Notes for anti-CLCN1 antibody	WB: 1:500-1:2000
Related Product Information for anti-CLCN1 antibody	The CLCN family of voltage-dependent chloride channel genes comprises nine members (CLCN1-7, Ka and Kb) which demonstrate quite diverse functional characteristics while sharing significant sequence homology. The protein encoded by this gene regulates the electric excitability of the skeletal muscle membrane. Mutations in this gene cause two forms of inherited human muscle disorders: recessive generalized myotonia congenita (Becker) and dominant myotonia (Thomsen). Alternative splicing results in multiple transcript variants.
Other Notes	Small volumes of anti-CLCN1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CLCN1 purchase	MBS8572614 is an antibody targeting CLCN1. Also known as CLCN1 Polyclonal Antibody. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CLCN1. It may not necessarily be applicable to this product.

NCBI GI #	119433677
NCBI GeneID	1180
NCBI Accession #	NP_000074.2
UniProt Primary Accession #	P35523

UniProt Related Accession #	P35523
GenBank Nucleotide #	NP_000074.2
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
UniProt Protein Name	Chloride channel protein 1
UniProt Synonym Protein Names	Chloride channel protein, skeletal muscle
Protein Family	Chloride channel protein
UniProt Gene Name	CLCN1
UniProt Synonym Gene Names	CLC1; ClC-1
UniProt Entry Name	CLCN1_HUMAN
NCBI Protein Information	chloride channel protein 1
UniProt Comments for CLCN1	CLCN1: Voltage-gated chloride channel. Chloride channels have several functions including the regulation of cell volume; membrane potential stabilization, signal transduction and transepithelial transport. Defects in CLCN1 are the cause of Thomsen disease (THD); also known as autosomal dominant myotonia congenita (MCD). THD is characterized by skeletal muscle stiffness (delayed relaxation), due to membrane hyperexcitability. A variant form of Thomsen disease is myotonia levior that is characterized by milder symptoms, later onset and absence of muscle hypo- and hypertrophy. Defects in CLCN1 are the cause of autosomal recessive myotonia congenita (MCR); also known as Becker disease. Belongs to the chloride channel (TC 2.A.49) family. ClC-1/CLCN1 subfamily. Protein type: Channel, chloride; Transporter, ion channel; Membrane protein, multi-pass; Transporter; Membrane protein, integral Chromosomal Location of Human Ortholog: 7q35 Cellular Component: integral to plasma membrane; plasma membrane; sarcolemma Molecular Function: chloride channel activity; voltage-gated chloride channel activity Biological Process: muscle contraction; transport; action potential propagation; transmembrane transport Disease: Myotonia Congenita, Autosomal Recessive; Myotonia Congenita, Autosomal Dominant
Research Articles on CLCN1	**1.** This study improves our understanding of the mechanisms underlying MC, sheds light on the role of the C-terminal region in ClC-1 function, and provides information to develop new antimyotonic drugs.
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