CLCN7 Antibody (C-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	CLCN7, Blocking Peptide
Full Product Name	CLCN7 Antibody (C-term) Blocking peptide
Product Gene Name	CLCN7 blocking peptide
Product Synonym Names	H(+)/Cl(-) exchange transporter 7; Chloride channel 7 alpha subunit; Chloride channel protein 7; ClC-7; CLCN7
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	CLCN7 peptide (MBS9218687) is used for blocking the activity of CLCN7 antibody (MBS9209715)
Molecular Weight	86,026 Da
OMIM	166600
Cellular Location	Lysosome membrane; Multi-pass membrane protein
Tissue Location	Brain, testis, muscle and kidney.
Related Product Information for CLCN7 blocking peptide	Slowly voltage-gated channel mediating the exchange of chloride ions against protons. Functions as antiporter and contributes to the acidification of the lysosome lumen.
Other Notes	Small volumes of CLCN7 blocking peptide 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 CLCN7 purchase	MBS9218687 is a blocking peptide targeting CLCN7. Also known as CLCN7 Antibody (C-term) Blocking peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CLCN7. It may not necessarily be applicable to this product.

NCBI GI #	14149607
NCBI GeneID	1186
NCBI Accession #	NP_001278.1
UniProt Primary Accession #	P51798
UniProt Secondary Accession #	Q9NYX5; A6NEJ7; A8K5T9; A8K7X1; B3KPN3; E9PDB9
UniProt Related Accession #	P51798
GenBank Nucleotide #	NM_001287.5
NCBI Official Full Name	H(+)/Cl(-) exchange transporter 7 isoform a
NCBI Official Synonym Full Names	chloride voltage-gated channel 7
NCBI Official Symbol	CLCN7
NCBI Official Synonym Symbols	CLC7; CLC-7; OPTA2; OPTB4; PPP1R63
UniProt Protein Name	H(+)/Cl(-) exchange transporter 7
UniProt Synonym Protein Names	Chloride channel 7 alpha subunit; Chloride channel protein 7; ClC-7

Protein Family	H(+)/Cl(-) exchange transporter
UniProt Gene Name	CLCN7
UniProt Synonym Gene Names	ClC-7
UniProt Entry Name	CLCN7_HUMAN
NCBI Protein Information	H(+)/Cl(-) exchange transporter 7
NCBI Summary for CLCN7	The product of this gene belongs to the CLC chloride channel family of proteins. Chloride channels play important roles in the plasma membrane and in intracellular organelles. This gene encodes chloride channel 7. Defects in this gene are the cause of osteopetrosis autosomal recessive type 4 (OPTB4), also called infantile malignant osteopetrosis type 2 as well as the cause of autosomal dominant osteopetrosis type 2 (OPTA2), also called autosomal dominant Albers-Schonberg disease or marble disease autosoml dominant. Osteopetrosis is a rare genetic disease characterized by abnormally dense bone, due to defective resorption of immature bone. OPTA2 is the most common form of osteopetrosis, occurring in adolescence or adulthood. [provided by RefSeq, Jul 2008]
UniProt Comments for CLCN7	CLCN7: Slowly voltage-gated channel mediating the exchange of chloride ions against protons. Functions as antiporter and contributes to the acidification of the lysosome lumen. Defects in CLCN7 are the cause of osteopetrosis autosomal recessive type 4 (OPTB4); also known as infantile malignant osteopetrosis type 2. Osteopetrosis is a rare genetic disease characterized by abnormally dense bone, due to defective resorption of immature bone. The disorder occurs in two forms: a severe autosomal recessive form occurring in utero, infancy, or childhood, and a benign autosomal dominant form occurring in adolescence or adulthood. Defects in CLCN7 are the cause of osteopetrosis autosomal dominant type 2 (OPTA2); also known as autosomal dominant Albers-Schonberg disease or marble disease autosomal dominant. Osteopetrosis is a rare genetic disease characterized by abnormally dense bone, due to defective resorption of immature bone. The disorder occurs in two forms: a severe autosomal recessive form occurring in utero, infancy, or childhood, and a benign autosomal dominant form occurring in adolescence or adulthood. OPTA2 is the most common form of osteopetrosis, occurring in adolescence or adulthood. It is characterized by sclerosis, predominantly involving the spine, the pelvis and the skull base. Belongs to the chloride channel (TC 2.A.49) family. ClC-7/CLCN7 subfamily. Protein type: Membrane protein, integral; Transporter, ion channel; Channel, chloride; Transporter; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 16p13 Cellular Component: lysosomal membrane; membrane Molecular Function: chloride channel activity Biological Process: transport Disease: Osteopetrosis, Autosomal Recessive 4; Osteopetrosis, Autosomal Dominant 2
Research Articles on CLCN7	**1.** study demonstrates a wide heterogeneity in the progression of the phenotypes and expanded the mutational spectrum for the CLCN7 gene
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