

**CLCN7 Antibody (C-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP11863b****Specification**

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**CLCN7 Antibody (C-term) Blocking peptide - Product Information**

Primary Accession [P51798](#)  
Other Accession [NP\\_001278.1](#), [NP\\_001107803.1](#)

**CLCN7 Antibody (C-term) Blocking peptide - Additional Information**

**Gene ID** 1186

**Other Names**

H(+)/Cl(-) exchange transporter 7, Chloride channel 7 alpha subunit, Chloride channel protein 7, CIC-7, CLCN7

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**CLCN7 Antibody (C-term) Blocking peptide - Protein Information**

**Name** CLCN7 ([HGNC:2025](#))

**Function**

Slowly voltage-gated channel mediating the exchange of chloride ions against protons (PubMed:<a href="http://www.uniprot.org/citations/18449189" target="\_blank">18449189</a>, PubMed:<a href="http://www.uniprot.org/citations/21527911" target="\_blank">21527911</a>). Functions as antiporter and contributes to the acidification of the lysosome lumen and may be involved in maintaining lysosomal pH (PubMed:<a href="http://www.uniprot.org/citations/18449189" target="\_blank">18449189</a>, PubMed:<a href="http://www.uniprot.org/citations/21527911" target="\_blank">21527911</a>, PubMed:<a href="http://www.uniprot.org/citations/31155284" target="\_blank">31155284</a>). The CLC channel family contains both chloride channels and proton-coupled anion transporters that exchange chloride or another anion for protons (By similarity). The presence of conserved gating glutamate residues is typical for family members that function as antiporters (By similarity).

**Cellular Location**

Lysosome membrane; Multi-pass membrane protein

**Tissue Location**

Brain and kidney..

### **CLCN7 Antibody (C-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

### **CLCN7 Antibody (C-term) Blocking peptide - Images**

### **CLCN7 Antibody (C-term) Blocking peptide - Background**

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 autosomal 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.

### **CLCN7 Antibody (C-term) Blocking peptide - References**

Furthner, D., et al. Klin Padiatr 222(3):180-183(2010) Phadke, S.R., et al. Indian J. Med. Res. 131, 508-514 (2010) :Pangrazio, A., et al. Hum. Mutat. 31 (1), E1071-E1080 (2010) :Kajiya, H., et al. Pflugers Arch. 458(6):1049-1059(2009) Mazzolari, E., et al. Am. J. Hematol. 84(8):473-479(2009)