

CLC5 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP6329g**Specification**

CLC5 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [P51795](#)**CLC5 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 1184**Other Names**

H(+)/Cl(-) exchange transporter 5, Chloride channel protein 5, CLC-5, Chloride transporter CLC-5, CLCN5, CLCK2

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP6329g](/product/products/AP6329g) was selected from the C-term region of human CLC5. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

CLC5 Antibody (C-term) Blocking Peptide - Protein Information**Name** CLCN5 ([HGNC:2023](#))**Synonyms** CLCK2**Function**

Proton-coupled chloride transporter. Functions as antiport system and exchanges chloride ions against protons (PubMed: <http://www.uniprot.org/citations/20466723> target="_blank">20466723). Important for normal acidification of the endosome lumen. May play an important role in renal tubular function. The CLC channel family contains both chloride channels and proton-coupled anion transporters that exchange chloride or another anion for protons. The absence of conserved gating glutamate residues is typical for family members that function as channels (Probable).

Cellular Location

Golgi apparatus membrane; Multi-pass membrane protein. Endosome membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein

Tissue Location

Kidney. Moderately expressed in aortic vascular smooth muscle and endothelial cells, and at a slightly higher level in the coronary vascular smooth muscle.

CLC5 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

CLC5 Antibody (C-term) Blocking Peptide - Images**CLC5 Antibody (C-term) Blocking Peptide - Background**

CLCN5 is a voltage-gated chloride channel. Mutation of this gene results in Dent disease and renal tubular disorders complicated by nephrolithiasis.

CLC5 Antibody (C-term) Blocking Peptide - References

Jouret, F., et al., Kidney Int. 65(1):198-208 (2004).Moulin, P., et al., Kidney Int. 63(4):1285-1295 (2003).Claverie-Martin, F., et al., Hum. Genet. 113(6):480-485 (2003).Hryciw, D.H., et al., J. Biol. Chem. 278(41):40169-40176 (2003).Carballo-Trujillo, I., et al., Nephrol. Dial. Transplant. 18(4):717-723 (2003).