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CLC5 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP6329g

Specification

CLC5 Antibody (C-term) Blocking Peptide - Product Information

Primary 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 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

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).

Synonyms CLCK2

Function
Proton-coupled chloride transporter. Functions as antiport system and exchanges chloride ions against protons. Important for normal acidification of the endosome lumen. May play an important role in renal tubular function.

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