

**CLCN2 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP16730a****Specification**

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**CLCN2 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [P51788](#)**CLCN2 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 1181**Other Names**

Chloride channel protein 2, CIC-2, CLCN2

**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.

**CLCN2 Antibody (N-term) Blocking Peptide - Protein Information****Name** CLCN2**Function**

Voltage-gated chloride channel. Chloride channels have several functions including the regulation of cell volume, membrane potential stabilization, signal transduction and transepithelial transport. Involved in the regulation of aldosterone production. The opening of CLCN2 channels at hyperpolarized membrane potentials in the glomerulosa causes cell membrane depolarization, activation of voltage-gated Ca<sup>2+</sup> channels and increased expression of aldosterone synthase, the rate-limiting enzyme for aldosterone biosynthesis (PubMed:<a href="http://www.uniprot.org/citations/29403011" target="\_blank">29403011</a>, PubMed:<a href="http://www.uniprot.org/citations/29403012" target="\_blank">29403012</a>).

**Cellular Location**

Cell membrane; Multi-pass membrane protein

**Tissue Location**

Ubiquitously expressed. Moderately expressed in aortic and coronary vascular smooth muscle cells and expressed at a low level in aortic endothelial cells. Expressed in the adrenal gland, predominantly in the zona glomerulosa (PubMed:29403011)

## **CLCN2 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

## **CLCN2 Antibody (N-term) Blocking Peptide - Images**

## **CLCN2 Antibody (N-term) Blocking Peptide - Background**

The transmembrane protein encoded by this gene is a voltage-gated chloride channel that maintains chloride ion homeostasis in various cells. Defects in this gene may be a cause of certain epilepsies. Four transcript variants encoding different isoforms have been found for this gene.

## **CLCN2 Antibody (N-term) Blocking Peptide - References**

Scheper, G.C., et al. Genet Test Mol Biomarkers 14(2):255-257(2010) Cornejo, I., et al. J. Cell. Physiol. 221(3):650-657(2009) Thompson, C.H., et al. J. Biol. Chem. 284(38):26051-26062(2009) Kleefuss-Lie, A., et al. Nat. Genet. 41(9):954-955(2009) Klaus, F., et al. Biochem. Biophys. Res. Commun. 381(3):407-411(2009)