

**SLC5A12 Antibody (C-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP10330b****Specification**

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**SLC5A12 Antibody (C-term) Blocking peptide - Product Information**

Primary Accession [O1EHB4](#)  
Other Accession [NP\\_848593.2](#)

**SLC5A12 Antibody (C-term) Blocking peptide - Additional Information**

**Gene ID** 159963

**Other Names**

Sodium-coupled monocarboxylate transporter 2, Electroneutral sodium monocarboxylate cotransporter, Low-affinity sodium-lactate cotransporter, Solute carrier family 5 member 12, SLC5A12, SMCT2

**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.

**SLC5A12 Antibody (C-term) Blocking peptide - Protein Information**

**Name** SLC5A12 ([HGNC:28750](#))

**Synonyms** SMCT2

**Function**

Acts as an electroneutral and low-affinity sodium (Na(+))- dependent sodium-coupled solute transporter (PubMed:<a href="http://www.uniprot.org/citations/17692818" target="\_blank">17692818</a>). Catalyzes the transport across the plasma membrane of many monocarboxylates such as lactate, pyruvate, nicotinate, propionate, butyrate and beta-D-hydroxybutyrate (By similarity). May be responsible for the first step of reabsorption of monocarboxylates from the lumen of the proximal tubule of the kidney and the small intestine. May play also a role in monocarboxylates transport in the retina (By similarity).

**Cellular Location**

Apical cell membrane; Multi-pass membrane protein. Note=Detected at the brush border membrane of the kidney. Colocalizes with vimentin in Mueller cells  
{ECO:0000250|UniProtKB:Q49B93}

## **SLC5A12 Antibody (C-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

## **SLC5A12 Antibody (C-term) Blocking peptide - Images**

## **SLC5A12 Antibody (C-term) Blocking peptide - Background**

Normal blood lactate is maintained at about 1.5 mM, and little filtered lactate is excreted in urine. Reabsorption of lactate is mediated by the low-affinity Na(+)-coupled lactate transporter SLC5A12 in the initial part of the proximal tubule and by the high-affinity Na(+)-coupled lactate transporter SLC5A8 (MIM608044) in the distal proximal tubule (Gopal et al., 2007 [PubMed17692818]).

## **SLC5A12 Antibody (C-term) Blocking peptide - References**

Gopal, E., et al. Biochim. Biophys. Acta 1768(11):2690-2697(2007)