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SLC15A1 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP14536b

Specification

SLC15A1 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession P46059

SLC15A1 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 6564

Other Names
Solute carrier family 15 member 1, Intestinal H(+)/peptide cotransporter, Oligopeptide transporter, small intestine isoform, Peptide transporter 1, SLC15A1, PEPT1

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.

SLC15A1 Antibody (C-term) Blocking Peptide - Protein Information

Name SLC15A1 (HGNC:10920)

Function
Electrogenic proton-coupled amino-acid transporter that transports oligopeptides of 2 to 4 amino acids with a preference for dipeptides. Transports neutral and monovalently charged peptides with a proton to peptide stoichiometry of 1:1 or 2:1 (PubMed:7896779, PubMed:9835627, PubMed:8914574, PubMed:15521010, PubMed:18367661, PubMed:19685173, PubMed:26320580) (By similarity). Primarily responsible for the absorption of dietary di- and tripeptides from the small intestinal lumen (By similarity). Mediates transepithelial transport of muramyl and N-formylated bacterial dipeptides contributing to recognition of pathogenic bacteria by the mucosal immune system (PubMed:9835627, PubMed:15521010).

Cellular Location
Apical cell membrane; Multi-pass membrane protein. Note=Localized to the apical membrane of enterocytes

Tissue Location
Expressed in small intestine.

SLC15A1 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

SLC15A1 Antibody (C-term) Blocking Peptide - Images

SLC15A1 Antibody (C-term) Blocking Peptide - Background

This gene encodes an intestinal hydrogen peptidecotransporter that is a member of the solute carrier family 15. Theencoded protein is localized to the brush border membrane of theintestinal epithelium and mediates the uptake of di- andtripeptides from the lumen into the enterocytes. This protein playsan important role in the uptake and digestion of dietary proteins.This protein also facilitates the absorption of numerouspeptidomimetic drugs.

SLC15A1 Antibody (C-term) Blocking Peptide - References

Dalmasso, G., et al. Am. J. Physiol. Gastrointest. Liver Physiol. 299 (3), G687-G696 (2010) :Pieri, M., et al. Am. J. Physiol. Gastrointest. Liver Physiol. 299 (1), G136-G143 (2010) :Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Geissler, S., et al. J. Agric. Food Chem. 58(4):2543-2547(2010)Yokoyama, K., et al. Nephron Clin Pract 115 (4), C237-C243 (2010) :