

SLC15A2 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP14651b**Specification**

SLC15A2 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q16348](#)**SLC15A2 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 6565**Other Names**

Solute carrier family 15 member 2, Kidney H(+)/peptide cotransporter, Oligopeptide transporter, kidney isoform, Peptide transporter 2, SLC15A2, PEPT2

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.

SLC15A2 Antibody (C-term) Blocking Peptide - Protein Information**Name** SLC15A2 ([HGNC:10921](#))**Function**

Proton-coupled amino-acid transporter that transports oligopeptides of 2 to 4 amino acids with a preference for dipeptides (PubMed:7756356, PubMed:18367661, PubMed:16434549). Transports neutral and anionic dipeptides with a proton to peptide stoichiometry of 2:1 or 3:1 (By similarity). In kidney, involved in the absorption of circulating di- and tripeptides from the glomerular filtrate (PubMed:7756356). Can also transport beta-lactam antibiotics, such as the aminocephalosporin cefadroxil, and other antiviral and anticancer drugs (PubMed:16434549). Transports the dipeptide-like aminopeptidase inhibitor bestatin (By similarity). Also able to transport carnosine (PubMed:31073693). Involved in innate immunity by promoting the detection of microbial pathogens by NOD-like receptors (NLRs) (By similarity). Mediates transport of bacterial peptidoglycans across the plasma membrane or, in macrophages, the phagosome membrane: catalyzes the transport of certain bacterial peptidoglycans, such as muramyl dipeptide (MDP), the NOD2 ligand (PubMed:<a

<http://www.uniprot.org/citations/20406817> target="_blank">20406817).

Cellular Location

Apical cell membrane {ECO:0000250|UniProtKB:Q63424}; Multi-pass membrane protein. Cytoplasmic vesicle, phagosome membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein. Note=Associated with the cell membrane in resting macrophages and enriched in phagocytic cups and phagosomes after particle internalization.

Tissue Location

Expressed in kidney (PubMed:7756356). Not detected in intestine (PubMed:7756356). Highly expressed in macrophages (PubMed:20406817).

SLC15A2 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

SLC15A2 Antibody (C-term) Blocking Peptide - Images**SLC15A2 Antibody (C-term) Blocking Peptide - Background**

Proton-coupled intake of oligopeptides of 2 to 4 amino acids with a preference for dipeptides.

SLC15A2 Antibody (C-term) Blocking Peptide - References

Man, M., et al. J Clin Pharmacol 50(8):929-940(2010)Charriere, G.M., et al. J. Biol. Chem. 285(26):20147-20154(2010)Geissler, S., et al. FEBS J. 277(3):790-795(2010)Yokoyama, K., et al. Nephron Clin Pract 115 (4), C237-C243 (2010) :Ross, C.J., et al. Nat. Genet. 41(12):1345-1349(2009)