

SLC22A15 Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP12717c**Specification**

SLC22A15 Antibody (Center) Blocking peptide - Product InformationPrimary Accession [Q8IZD6](#)**SLC22A15 Antibody (Center) Blocking peptide - Additional Information****Gene ID** 55356**Other Names**

Solute carrier family 22 member 15, Fly-like putative transporter 1, Flipt 1, SLC22A15, FLIPT1

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.

SLC22A15 Antibody (Center) Blocking peptide - Protein Information**Name** SLC22A15 {ECO:0000303|PubMed:33124720}**Synonyms** FLIPT1**Function**

Organic zwitterion/cation transporter with apparent specificity for amino acids and their derivatives. Has low affinity for its substrates and may regulate their flux across the plasma membrane at high substrate concentrations (PubMed:33124720). Bidirectionally transports carnitine and acetylcarnitine, possibly regulating their cytosolic abundance and further fatty acid catabolism via beta oxidation (PubMed:33124720). Displays high transport activity toward zwitterionic substrates such as glycine betaine and diet-derived ergothioneine and carnosine. Can transport cations having an indole skeleton such as thiamine with lower efficiency. Does not transport agmatine (PubMed:33124720, PubMed:15028572). The transport mechanism, symport with sodium or facilitated diffusion allosterically regulated by sodium, remains to be elucidated (Probable).

Cellular Location

Cell membrane; Multi-pass membrane protein

Tissue Location

Expressed at highest levels in kidney and brain. Expressed at high levels in skeletal muscle, heart, liver, placenta and white blood cells. Expressed at moderate levels in lung and spleen Expressed at low levels in thymus, small intestine and colon. Expressed in several intestinal tumor cell lines.

SLC22A15 Antibody (Center) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

SLC22A15 Antibody (Center) Blocking peptide - Images**SLC22A15 Antibody (Center) Blocking peptide - Background**

Organic ion transporters, such as SLC22A15, transport various medically and physiologically important compounds, including pharmaceuticals, toxins, hormones, neurotransmitters, and cellular metabolites. These transporters are also referred to as amphiphilic solute facilitators (ASFs).

SLC22A15 Antibody (Center) Blocking peptide - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Clark, H.F., et al. Genome Res. 13(10):2265-2270(2003) Eraly, S.A., et al. Biochem. Biophys. Res. Commun. 297(5):1159-1166(2002)