

SLCO3A1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP13144c**Specification**

SLCO3A1 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [O9UIG8](#)**SLCO3A1 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 28232**Other Names**

Solute carrier organic anion transporter family member 3A1, OATP3A1, Organic anion transporter polypeptide-related protein 3, OATP-RP3, OATPRP3, Organic anion-transporting polypeptide D, OATP-D, PGE1 transporter, Sodium-independent organic anion transporter D, Solute carrier family 21 member 11, SLCO3A1, OATP3A1, OATPD, SLC21A11

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP13144c was selected from the Center region of SLCO3A1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

SLCO3A1 Antibody (Center) Blocking Peptide - Protein Information**Name** SLCO3A1**Synonyms** OATP3A1, OATPD, SLC21A11**Function**

Putative organic anion antiporter with apparent broad substrate specificity. Recognizes various substrates including thyroid hormone L-thyroxine, prostanoids such as prostaglandin E1 and E2, bile acids such as taurocholate, glycolate and glycochenodeoxycholate and peptide hormones such as L-arginine vasopressin, likely operating in a tissue-specific manner (PubMed:10873595, PubMed:14631946, PubMed:16971491, PubMed:19129463, PubMed:30063921). The transport mechanism, its electrogenicity and potential tissue-specific counterions remain to be elucidated (Probable).

Cellular Location

[Isoform 1]: Basolateral cell membrane; Multi-pass membrane protein. Note=Localized to the basolateral membrane of choroid plexus epithelium.

Tissue Location

Generally the expression of isoform 1 is higher than that of isoform 2. [Isoform 2]: Expressed in heart, brain, cerebellum, testis, lung, thyroid, spleen and liver (PubMed:16971491). In testis, primarily localized to the basal membrane of Sertoli cells and weakly expressed within the tubules (PubMed:35307651, PubMed:16971491). In testis, also present in spermatogonia at different stages. In brain, expressed in the choroid plexus epithelium, at the apical membrane as well as in the subapical intracellular vesicular compartments. In brain, also associated with neuronal bodies and axons in both the gray and the white matters of the frontal cortex (PubMed:16971491)

SLC03A1 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

SLC03A1 Antibody (Center) Blocking Peptide - Images

SLC03A1 Antibody (Center) Blocking Peptide - Background

SLC03A1 mediates the Na(+)-independent transport of organic anions such as estrone-3-sulfate (PubMed:10873595). Mediates transport of prostaglandins (PG) E1 and E2, thyroxine (T4), deltorphin II, BQ-123 and vasopressin, but not DPDPE (a derivative of enkephalin lacking an N-terminal tyrosine residue), estrone-3-sulfate, taurocholate, digoxin nor DHEAS (PubMed:16971491).

SLC03A1 Antibody (Center) Blocking Peptide - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Volpi, S., et al. Mol. Psychiatry 14(11):1024-1031(2009)Montasser, M.E., et al. J. Hypertens. 27(3):491-501(2009)Lasky-Su, J., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 147B (8), 1345-1354 (2008) :Huber, R.D., et al. Am. J. Physiol., Cell Physiol. 292 (2), C795-C806 (2007) :