10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SLC47A1 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP5354b

Specification

SLC47A1 Antibody (C-term) Blocking peptide - Product Information

Primary Accession	Q96FL8
Other Accession	NP_060712.2

SLC47A1 Antibody (C-term) Blocking peptide - Additional Information

Gene ID 55244

Other Names
Multidrug and toxin extrusion protein 1, MATE-1, hMATE-1, Solute carrier family 47 member 1, SLC47A1, MATE1

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.

SLC47A1 Antibody (C-term) Blocking peptide - Protein Information

Name SLC47A1 (HGNC:25588)

Function
Multidrug efflux pump that functions as a H(+)/organic cation antiporter (PubMed:16330770, PubMed:17509534). Plays a physiological role in the excretion of cationic compounds including endogenous metabolites, drugs, toxins through the kidney and liver, into urine and bile respectively (PubMed:16330770, PubMed:17495125, PubMed:17509534, PubMed:17582384, PubMed:18305230, PubMed:19158817, PubMed:21128598, PubMed:24961373). Mediates the efflux of endogenous compounds such as creatinine, vitamin B1/thiamine, agmatine and estrone-3-sulfate (PubMed:16330770, PubMed:<a href="http://www.uniprot.org/citations/17495125"

target="_blank">17495125, PubMed:17509534, PubMed:17582384, PubMed:18305230, PubMed:19158817, PubMed:21128598, PubMed:24961373). May also contribute to regulate the transport of cationic compounds in testis across the blood-testis-barrier (Probable).

Cellular Location
Cell membrane; Multi-pass membrane protein. Apical cell membrane; Multi-pass membrane protein. Note=Localizes to the plasma membrane; at the brush border membranes of the proximal tubules (kidney) and at the bile caniculi (liver).

Tissue Location
Widely expressed. The highest expression is found in adrenal gland, and to a lower extent in liver, skeletal muscle and kidney. In testis, primarily localized throughout the adluminal compartment of the seminiferous tubules with expression at the peritubular myoid cells and Leydig cells (PubMed:35307651)

SLC47A1 Antibody (C-term) Blocking peptide - Protocols

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

- Blocking Peptides

SLC47A1 Antibody (C-term) Blocking peptide - Images

SLC47A1 Antibody (C-term) Blocking peptide - Background

SLC47A1 is located within the Smith-Magenis syndrome region on chromosome 17. It encodes a protein of unknown function.

SLC47A1 Antibody (C-term) Blocking peptide - References

Toyama, K., et al. Pharmacogenet. Genomics 20(2):135-138(2010)Becker, M.L., et al. Pharmacogenet. Genomics 20(1):38-44(2010)Ha Choi, J., et al. Pharmacogenet. Genomics 19(10):770-780(2009)