

SLC22A1 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1492a

Specification

SLC22A1 Antibody - Product Information

Application	WB, FC
Primary Accession	O15245
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	61.2kDa KDa

Description

Polyspecific organic cation transporters in the liver, kidney, intestine, and other organs are critical for elimination of many endogenous small organic cations as well as a wide array of drugs and environmental toxins. This gene is one of three similar cation transporter genes located in a cluster on chromosome 6. The encoded protein contains twelve putative transmembrane domains and is a plasma integral membrane protein. Tissue specificity: Widely expressed with high level in liver.

Immunogen

Purified recombinant fragment of human SLC22A1 expressed in E. Coli.

Formulation

Ascitic fluid containing 0.03% sodium azide.

SLC22A1 Antibody - Additional Information

Gene ID 6580

Other Names

Solute carrier family 22 member 1, Organic cation transporter 1, hOCT1, SLC22A1, OCT1

Dilution

WB~~1/500 - 1/2000

FC~~1/200 - 1/400

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

SLC22A1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

SLC22A1 Antibody - Protein Information

href="http://www.uniprot.org/citations/11408531" target="_blank">11408531, PubMed:15389554, PubMed:35469921).

Cellular Location

Basolateral cell membrane; Multi-pass membrane protein. Apical cell membrane; Multi-pass membrane protein. Lateral cell membrane; Multi-pass membrane protein. Basal cell membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein. Note=Localized to the sinusoidal/basolateral membrane of hepatocytes (By similarity). Mainly localized to the basolateral membrane of renal proximal tubular cells (By similarity). However, also identified at the apical side of proximal tubular cells (PubMed:19536068). Mainly expressed at the lateral membrane of enterocytes (PubMed:16263091). Also observed at the apical side of enterocytes (PubMed:23680637). Localized to the luminal/apical membrane of ciliated epithelial cells in bronchi (PubMed:15817714). Localized to the basal membrane of Sertoli cells (PubMed:35307651) {ECO:0000250|UniProtKB:Q63089, ECO:0000269|PubMed:15817714, ECO:0000269|PubMed:16263091, ECO:0000269|PubMed:19536068, ECO:0000269|PubMed:23680637, ECO:0000269|PubMed:35307651}

Tissue Location

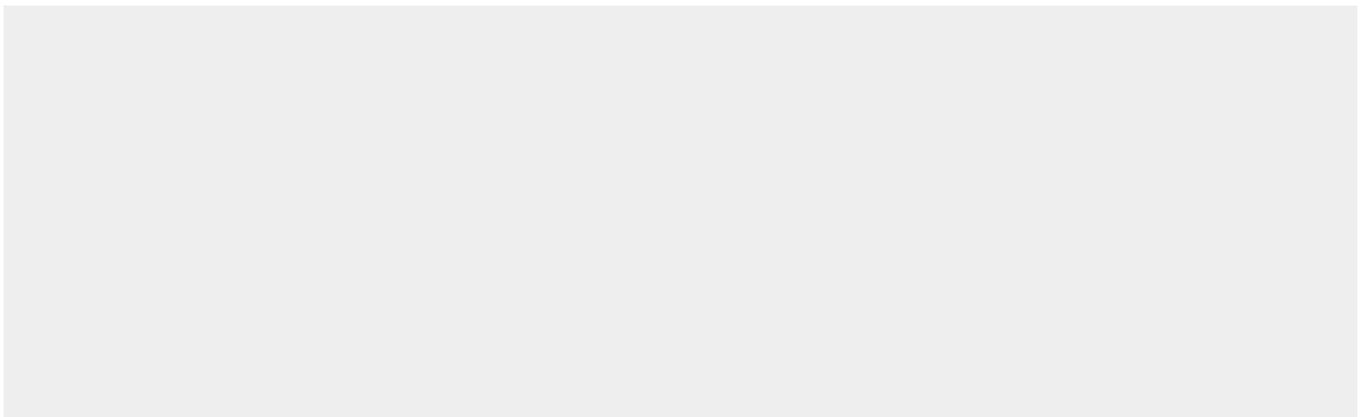
Widely expressed with high level in liver (PubMed:9260930, PubMed:9187257, PubMed:11388889, PubMed:23680637). In liver, expressed around the central vein (PubMed:16263091). Expressed in kidney (PubMed:9260930, PubMed:9187257). Expressed in small intestine enterocytes (PubMed:16263091, PubMed:23680637). Localized to peritubular myoid cells, Leydig cells and moderately to the basal membrane of Sertoli cells in testes (PubMed:35307651). Expressed in tracheal and bronchial ciliated epithelium in the respiratory tract (PubMed:15817714). Also expressed in skeletal muscle, stomach, spleen, heart, placenta, colon, brain, granulocytes and lymphocytes (PubMed:9260930, PubMed:9187257). [Isoform 2]: Expressed in liver and in glial cell lines. [Isoform 4]: Expressed in glial cell lines. Not expressed in liver.

SLC22A1 Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SLC22A1 Antibody - Images



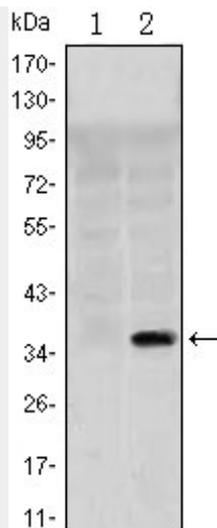


Figure 1: Western blot analysis using SLC22A1 mAb against HEK293 (1) and SLC22A1(AA: 284-347)-hlgGfC transfected HEK293 (2) cell lysate.

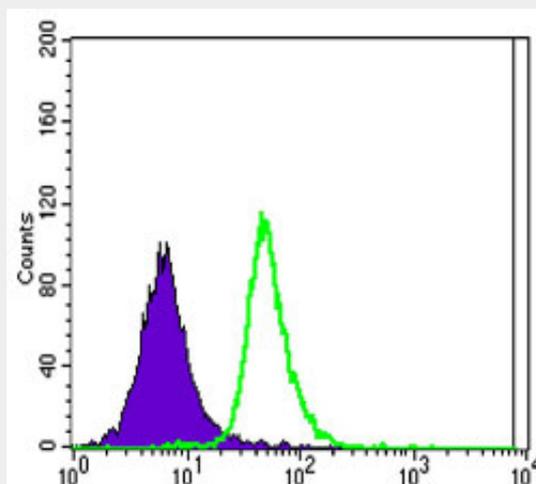


Figure 2: Flow cytometric analysis of Jurkat cells using SLC22A1 mouse mAb (green) and negative control (purple).

SLC22A1 Antibody - References

1. Leuk Lymphoma. 2008 Nov;49(11):2222-3.
2. Blood. 2008 Oct 15;112(8):3348-54.
3. Pharm Res. 2008 Apr;25(4):827-35.