

SLC47A1 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5354b

Specification

SLC47A1 Antibody (C-term) - Product Information

Application	WB, IHC-P-Leica,E
Primary Accession	O96FL8
Other Accession	NP_060712.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	492-519

SLC47A1 Antibody (C-term) - 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

Target/Specificity

This SLC47A1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 492-519 amino acids from the C-terminal region of human SLC47A1.

Dilution

WB~~1:2000
IHC-P-Leica~~1:500

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

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

Precautions

SLC47A1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

SLC47A1 Antibody (C-term) - 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:[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

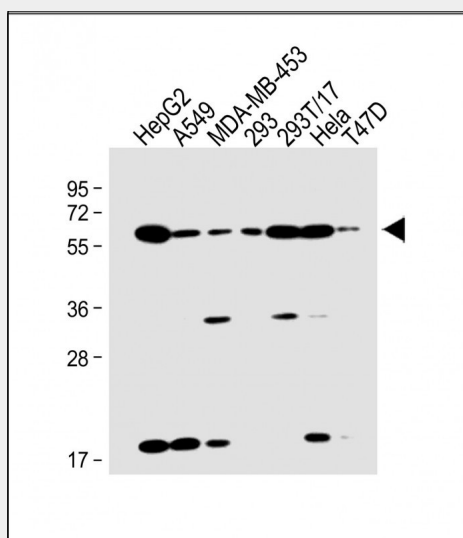
Widely expressed. The highest expression is found in adrenal gland, and to a lower extent in liver, skeletal muscle and kidney. In testis, primarily localized throughout the adluminal compartment of the seminiferous tubules with expression at the peritubular myoid cells and Leydig cells (PubMed:35307651)

SLC47A1 Antibody (C-term) - Protocols

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

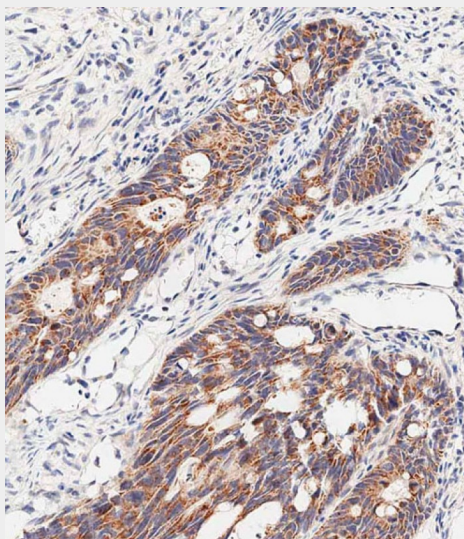
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SLC47A1 Antibody (C-term) - Images

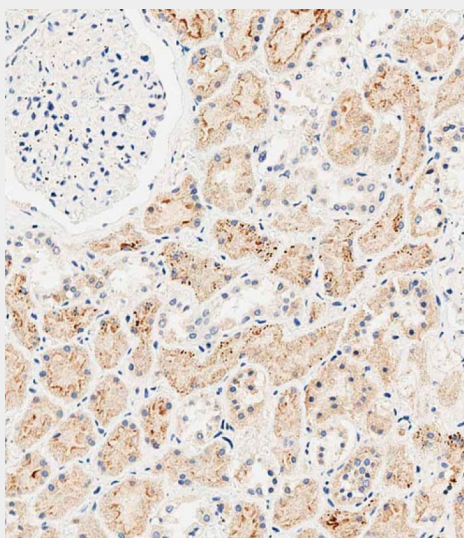


All lanes : Anti-SLC47A1 Antibody (C-term) at 1:2000 dilution Lane 1: HepG2 whole cell lysate

Lane 2: A549 whole cell lysate Lane 3: MDA-MB-453 whole cell lysate Lane 4: 293 whole cell lysate Lane 5: 293T/17 whole cell lysate Lane 6: Hela whole cell lysate Lane 7: T47D whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 62 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Immunohistochemical analysis of paraffin-embedded human colon carcinoma tissue using AP5354b performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



Immunohistochemical analysis of paraffin-embedded human kidney tissue using AP5354b performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.

SLC47A1 Antibody (C-term) - Background

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

SLC47A1 Antibody (C-term) - 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)