

# SLC47A1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP5354b

## Product Information

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<b>Application</b>	IHC-P-Leica, WB, E
<b>Primary Accession</b>	<a href="#">Q96FL8</a>
<b>Other Accession</b>	<a href="#">NP_060712.2</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB26908
<b>Calculated MW</b>	61922
<b>Antigen Region</b>	492-519

## Additional Information

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<b>Gene ID</b>	55244
<b>Other Names</b>	Multidrug and toxin extrusion protein 1, MATE-1, hMATE-1, Solute carrier family 47 member 1, SLC47A1, MATE1
<b>Target/Specificity</b>	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.
<b>Dilution</b>	IHC-P-Leica~~1:500 WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	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.
<b>Storage</b>	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.
<b>Precautions</b>	SLC47A1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	SLC47A1 ( <a href="#">HGNC:25588</a> )
<b>Function</b>	Multidrug efflux pump that functions as a H(+)/organic cation antiporter (PubMed: <a href="#">16330770</a> , PubMed: <a href="#">17509534</a> ). 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)

## Background

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

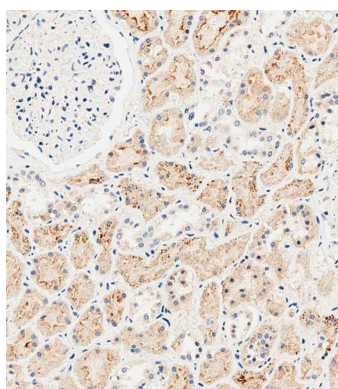
## References

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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)

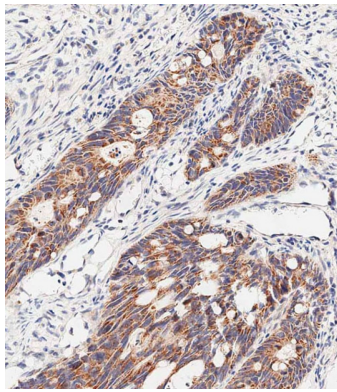
## Images

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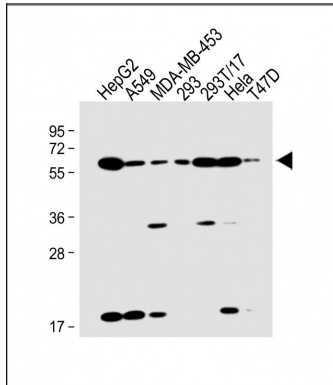


Immunohistochemical analysis of paraffin-embedded human kidney tissue using AP5354b performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:500) for 1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

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.



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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.