

SLC47A1 Rabbit pAb

Catalog # AP97919

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q96FL8
Other Accession	Q96FL8
Host	Rabbit
Clonality	Polyclonal
Calculated MW	61922
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SLC47A1
Epitope Specificity	211-310/530
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the multi antimicrobial extrusion (MATE) (TC 2.A.66.1) family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene is located within the Smith-Magenis syndrome region on chromosome 17. It encodes a protein of unknown function. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	55244
Other Names	MATE1; S47A1_HUMAN; SLC47A1; MATE-1; hMATE-1; Solute carrier family 47 member 1; solute carrier family 47 (multidrug and toxin extrusion), member 1; multidrug and toxin extrusion 1
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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)

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