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# SLC47A1 Rabbit pAb

Catalog # AP97919

## Product Information

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| **Application** | WB, IHC-P, IHC-F, IF |
| **Primary Accession** | Q96FL8 |
| **Other Accession** | Q96FL8 |
| **Reactivity** | Rat, Human, Mouse |
| **Predicted** | Rabbit, Horse, Sheep |
| **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

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| **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

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| **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 |

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| | 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) |

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