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SLC47A2 Antibody (internal region, near C-Term)

Peptide-affinity purified goat antibody
Catalog # AF3446a

Specification

SLC47A2 Antibody (internal region, near C-Term) - Product Information

Application	**WB**
Primary Accession	Q86VL8
Other Accession	NP_690872.2, NP_001093116.1, 146802
Reactivity	**Human**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5 mg/ml**
Isotype	**IgG**
Calculated MW	**65085**

SLC47A2 Antibody (internal region, near C-Term) - Additional Information

Gene ID 146802

Other Names
Multidrug and toxin extrusion protein 2, MATE-2, hMATE-2, Kidney-specific H(+)/organic cation antiporter, Solute carrier family 47 member 2, SLC47A2, MATE2

Format
0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

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
SLC47A2 Antibody (internal region, near C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

SLC47A2 Antibody (internal region, near C-Term) - Protein Information

Name SLC47A2 (HGNC:26439)

Synonyms MATE2

Function
Multidrug efflux pump that functions as a H(+)/organic cation antiporter. Mediates the efflux of cationic compounds, such as the model cations, tetraethylammonium (TEA) and 1-methyl-4-phenylpyridinium (MPP+), the platinum-based drug oxaliplatin or weak bases that are positively charged at physiological pH, cimetidine, the platinum-based drugs cisplatin and oxaliplatin or the antidiabetic drug metformin. Mediates the efflux of endogenous compounds such

as, creatinine, thiamine and estrone-3-sulfate. Plays a physiological role in the excretion of drugs, toxins and endogenous metabolites through the kidney.

Cellular Location
Cell membrane; Multi-pass membrane protein. Apical cell membrane; Multi-pass membrane protein. Note=Detected in the renal urinary tubules.

Tissue Location
[Isoform 1]: High expression in kidney. Very small expression in adrenal gland and lung. [Isoform 6]: Ubiquitously expressed in all tissues examined except the kidney.

SLC47A2 Antibody (internal region, near 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 Cytomety
- Cell Culture

SLC47A2 Antibody (internal region, near C-Term) - Images



AF3446a (0.1 µg/ml) staining of Human Testis lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

SLC47A2 Antibody (internal region, near C-Term) - Background

This antibody is expected to recognize both reported isoforms (NP_690872.2; NP_001093116.1).

SLC47A2 Antibody (internal region, near C-Term) - References

Functional characteristics of two human MATE transporters: kinetics of cimetidine transport and profiles of inhibition by various compounds. Ohta KY, Inoue K, Yasujima T, Ishimaru M, Yuasa H,

Journal of pharmacy & pharmaceutical sciences : a publication of the Canadian Society for Pharmaceutical Sciences, SociÃ©tÃ© canadienne des sciences pharmaceutiques 2009 12 (3): 388-96. PMID: 20067714