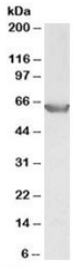
OCT3 Antibody / SLC22A3 Antibody (R35997)

Catalog No.	Formulation	Size
R35997-100UG	0.5 mg/ml in 1X TBS, pH7.3, with 0.5% BSA (US sourced) and 0.02% sodium azide	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Predicted Reactivity	Mouse, Rat, Dog, Pig, Cow
Format	Antigen affinity purified
Host	Goat
Clonality	Polyclonal (goat origin)
Isotype	Goat Ig
Purity	Antigen affinity
Gene ID	6581
Applications	Western blot: 0.5-2ug/ml ELISA (peptide) LOD: 1:4000
Limitations	This OCT3 Antibody / SLC22A3 Antibody is available for research use only.



OCT3 Antibody HEK293 Cell WB. Western blot analysis of HEK293 cell lysate using OCT3 Antibody / SLC22A3 Antibody at 0.5 ug/ml. A distinct band is detected at approximately 61 kDa, consistent with the predicted molecular weight of SLC22A3 (OCT3). The result demonstrates specific detection of endogenous OCT3 in human HEK293 cells by Western blot. This OCT3 Antibody, also called SLC22A3 Antibody, is suitable for studies of organic cation transport, monoamine uptake, membrane transporter biology, and xenobiotic transport mechanisms.

Description

OCT3 Antibody / SLC22A3 Antibody recognizes Organic Cation Transporter 3 (OCT3), a broadly expressed plasma membrane transporter encoded by the SLC22A3 gene. OCT3 belongs to the solute carrier family 22 of organic cation transporters and mediates sodium-independent uptake of numerous endogenous monoamines, neurotransmitters, and positively charged xenobiotic compounds. Because of its broad tissue distribution and wide substrate specificity, OCT3 plays an important role in maintaining cellular homeostasis and regulating the movement of biologically active cations

between tissues and the circulation.

OCT3 is expressed in organs including the brain, heart, liver, kidney, intestine, placenta, and skeletal muscle, where it contributes to the transport of dopamine, norepinephrine, epinephrine, serotonin, histamine, and many therapeutic drugs. Unlike high-affinity neuronal transporters, OCT3 functions as a high-capacity uptake system capable of clearing extracellular monoamines in both neuronal and non-neuronal tissues. An OCT3 Antibody is therefore useful for studying transporter localization, tissue distribution, and regulation under physiological and pathological conditions.

Interest in SLC22A3 has expanded beyond transporter biology because altered expression has been associated with cancer progression, cardiovascular disease, metabolic disorders, and interindividual differences in drug response. Ongoing research continues to investigate how OCT3 contributes to pharmacokinetics, xenobiotic handling, and disease susceptibility, making it an important target in pharmacology, toxicology, and precision medicine.

An OCT3 Antibody is a valuable reagent for investigating SLC22A3 expression, monoamine transport pathways, membrane transporter biology, drug uptake mechanisms, and xenobiotic transport in normal and diseased tissues.

Learn more about Organic Cation Transporter 3 biology, its role in monoamine and organic cation transport, and our SLC22A3 Antibody / Organic Cation Transporter 3 Antibody page for additional validation data and research resources.

Application Notes

Optimal dilution of the OCT3 Antibody / SLC22A3 Antibody should be determined by the researcher.

Immunogen

Amino acids SNYSEITVTDEEVSN were used as the immunogen for this SLC22A3 / OCT3 antibody.

Storage

Aliquot and store the SLC22A3 / OCT3 antibody at -20oC.

Alternate Names

OCT3 antibody, SLC22A3 antibody, Organic Cation Transporter 3 antibody, Solute Carrier Family 22 Member 3 antibody

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