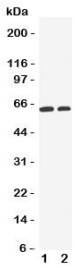
OCT1 Antibody / SLC22A1 (R31293)

Catalog No.	Formulation	Size
R31293	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	O15245
Applications	Western Blot : 0.5-1ug/ml
Limitations	This OCT1 antibody is available for research use only.



Western blot testing of OCT1 antibody and Lane 1: human HeLa cell lysate; 2: human A549 cell lysate. Predicted molecular weight ~61 kDa but this glycoprotein may be observed at up to ~80 kDa.

Description

Solute carrier family 22 (organic cation transporter) member 1, also called OCT1 (Organic cation transporter 1) is a protein that in humans is encoded by the SLC22A1 gene. This gene is mapped to 6q25.3. Polyspecific organic cation transporters in the liver, kidney, intestine, and other organs are critical for elimination of many endogenous small organic cations as well as a wide array of drugs and environmental toxins. This gene transports the polyamines spermine and spermidine. It also transports pramipexole across the basolateral membrane of the proximal tubular epithelial cells. This gene regulated by various intracellular signaling pathways including inhibition by protein kinase A activation, and endogenously activation by the calmodulin complex, the calmodulin-dependent kinase II and LCK tyrosine kinase.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the OCT1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the C-terminus of human SLC22A1/OCT1 (RKAKPKENTIYLKVQTSE) was used as the immunogen for this OCT1 antibody.

Storage

After reconstitution, the OCT1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.