



OCT1 Monoclonal Antibody

Catalog No	YP-Ab-16306
Isotype	IgG
Reactivity	Human
Applications	WB;FCM;ELISA
Gene Name	SLC22A1
Immunogen	Purified recombinant fragment of human OCT1 expressed in E. Coli.
Specificity	OCT1 Monoclonal Antibody detects endogenous levels of 41183 protein.
Formulation	Ascitic fluid containing 0.03% sodium azide, 0.5% BSA, 50% glycerol.
Source	Monoclonal, Mouse
Purification	Affinity purification
Dilution	Western Blot: 1/500 - 1/2000. Flow cytometry: 1/200 - 1/400. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	OTF1;Octamer-binding transcription factor 1;Octamer-binding protein 1;Oct-1; NF-A1;45200;SLC22A1;Solute carrier family 22 member 1;OCT1;Organic cation transporter 1;hOCT1
Observed Band	
Calculated Molecular Weight	
Cell Pathway	Basolateral cell membrane ; Multi-pass membrane protein .
Tissue Specificity	Widely expressed with high level in liver. Isoform 1 and isoform 2 are expressed in liver. Isoform 1, isoform 2, isoform 3 and isoform 4 are expressed in glial cell lines.
Function	caution:The sequence shown here is derived from an Ensembl automatic analysis pipeline and should be considered as preliminary data., function:Translocates a broad array of organic cations with various structures and molecular weights including the model compounds 1-methyl-4-phenylpyridinium (MPP), tetraethylammonium (TEA), N-1-methylnicotinamide (NMN), 4-(4-(dimethylamino)styryl)-N-methylpyridinium (ASP), the endogenous compounds choline, guanidine, histamine, epinephrine, adrenaline, noradrenaline and dopamine, and the drugs quinine, and metformin. The transport of organic cations is inhibited by a broad array of compounds like



tetramethylammonium (TMA), cocaine, lidocaine, NMDA receptor antagonists, atropine, prazosin, cimetidine, TEA and NMN, guanidine, cimetidine, choline, procainamide, quinine, tetrabutylammonium, and tetrapentylammonium. Translocates organic cations in an electrogenic

Background

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 is one of three similar cation transporter genes located in a cluster on chromosome 6. The encoded protein contains twelve putative transmembrane domains and is a plasma integral membrane protein. Two transcript variants encoding two different isoforms have been found for this gene, but only the longer variant encodes a functional transporter. [provided by RefSeq, Jul 2008],

matters needing attention

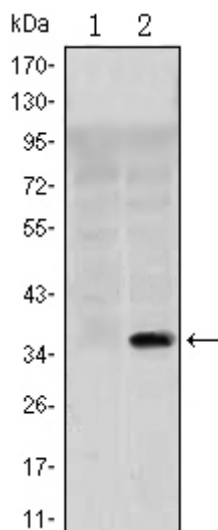
Avoid repeated freezing and thawing!

Usage suggestions

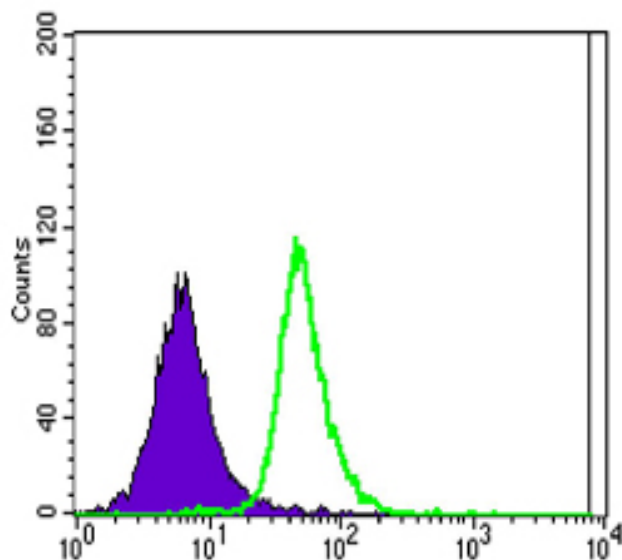
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Products Images



Western Blot analysis using OCT1 Monoclonal Antibody against HEK293 (1) and SLC22A1-hlgFc transfected HEK293 (2) cell lysate.



Flow cytometric analysis of Jurkat cells using OCT1 Monoclonal Antibody (green) and negative control (purple).