# OCT1 Monoclonal Antibody

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| **Catalog No** | YP-Ab-16306 |
| **Isotype** | IgG |
| **Reactivity** | Human |
| **Applications** | WB;FCM;ELISA |
| **Gene Name** | SLC22A1 |
| **Protein Name** | Solute carrier family 22 member 1 |
| **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** | SLC22A1; OCT1; Solute carrier family 22 member 1; Organic cation transporter 1; hOCT1 |
| **Observed Band** | |
| **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 electroge |
| **Background** | Polyspecific organic cation transporters in the liver, kidney, intestine, and other organs are critical for elimination of many endogenous small organic cations as |

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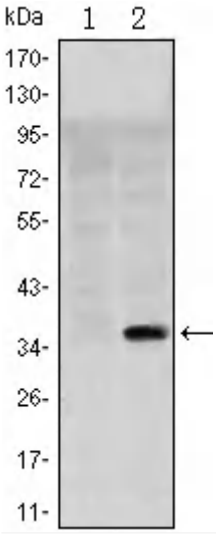
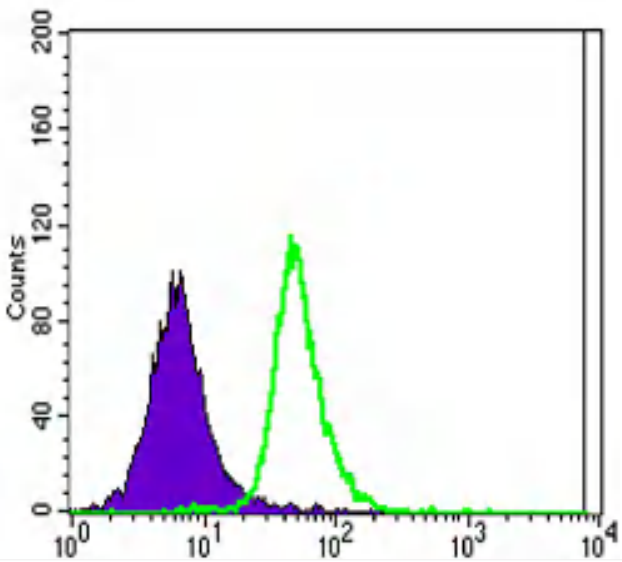
| | well as a wide array of drugs and environmental toxins. This gene is one of three similar cation transporter genes located in a cluster on chromosome 6. The encoded protein contains twelve putative transmembrane domains and is a plasma integral membrane protein. Two transcript variants encoding two 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-hIgGFc transfected HEK293 (2) cell lysate.




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