Data Sheet (Cat.No.TMAC-03770)

Anti-SLC22A1 Antibody (6Q395)

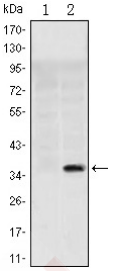
Product Details

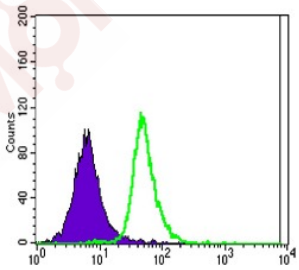
Reactivity:	Human
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 61 kDa.
Clone:	6Q395
Purification:	ProA affinity purified

Applications

Verified Activity:

1. Western blot analysis of SLC22A1 on HEK293 (1) and SLC22A1-hIgGFc transfected HEK293 (2) cell lysate using anti-SLC22A1 antibody at 1/1,000 dilution.
2. Flow cytometric analysis of Jurkat cells with SLC22A1 antibody at 1/100 dilution (green) compared with an unlabelled control (cells without incubation with primary antibody; purple).





Application:	FCM,WB
Recommended	WB: 1:500-1000; FCM: 1:100-200

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein
Uniprot ID:	O15245
Synonyms:	OCT1;Slc22a1;oct1_cds;solute carrier family 22 (organic cation transporter), member 1;hOCT1; Organic cation transporter 1;S22A1_HUMAN;Solute carrier family 22 member 1

Research Background

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 and pH-independent manner. Translocates organic cations across the plasma membrane in both directions. Transports the polyamines spermine and spermidine. Transports pramipexole across the basolateral membrane of the proximal tubular epithelial cells. The choline transport is activated by MMTS. 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.

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