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Anti-SLC22A5 / OCTN2 Antibody

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS18326

Product Information

Application	WB, IHC-P, IF
Primary Accession	O76082
Predicted	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	62752

Additional Information

Gene ID	6584
Alias Symbol	SLC22A5
Other Names	SLC22A5, CDSP, OCTN2VT, OCTN2, UST2
Target/Specificity	Human SLC22A5 / OCTN2
Reconstitution & Storage	Affinity purified
Precautions	Anti-SLC22A5 / OCTN2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SLC22A5 (HGNC:10969)
Function	Sodium-ion dependent, high affinity carnitine transporter. Involved in the active cellular uptake of carnitine. Transports one sodium ion with one molecule of carnitine (PubMed:10454528, PubMed:10525100, PubMed:10966938, PubMed:17509700, PubMed:20722056, PubMed:33124720). Also transports organic cations such as tetraethylammonium (TEA) without the involvement of sodium. Relative uptake activity ratio of carnitine to TEA is 11.3 (PubMed:10454528, PubMed:10525100, PubMed:10966938). In intestinal epithelia, transports the quorum-sensing pentapeptide CSF (competence and sporulation factor) from B.subtilis which induces cytoprotective heat shock proteins contributing to intestinal homeostasis (PubMed:18005709). May also contribute to regulate the transport of organic compounds in testis across the blood-testis-barrier (Probable).
Cellular Location	Cell membrane; Multi-pass membrane protein. Apical cell membrane;

	Multi-pass membrane protein. Basal cell membrane; Multi-pass membrane protein. Note=In intestinal cells, apical expression is induced by TNF. Localized to the basal membrane of Sertoli cells (PubMed:35307651).
Tissue Location	Strongly expressed in kidney, skeletal muscle, heart and placenta (PubMed:10454528). Primarily expressed by surface epithelial cells of the colon (at protein level) (PubMed:18005709) Expressed in CD68 macrophage and CD43 T-cells but not in CD20 B-cells (PubMed:10454528). In testis, localized to Sertoli cell basal membranes, peritubular myoid cells and Leydig cells (PubMed:35307651)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.