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Anti-SLC22A5 / OCTN2 Antibody
Rabbit Anti Human Polyclonal Antibody
Catalog # ALS18326

Specification

Anti-SLC22A5 / OCTN2 Antibody - Product Information

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

Anti-SLC22A5 / OCTN2 Antibody - 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.

Anti-SLC22A5 / OCTN2 Antibody - 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:<a

href="http://www.uniprot.org/citations/10525100" target="_blank">10525100, PubMed:10966938). In intestinal epithelia, transports the quorum-sensing pentapeptide CSF (competence and sporulation factor) from Bacillus Subtilis wich 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)

Anti-SLC22A5 / OCTN2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-SLC22A5 / OCTN2 Antibody - Images