

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:10454528, PubMed:10454528).

[10525100](http://www.uniprot.org/citations/10525100), PubMed: [10966938](http://www.uniprot.org/citations/10966938)). In intestinal epithelia, transports the quorum-sensing pentapeptide CSF (competence and sporulation factor) from *Bacillus Subtilis* which induces cytoprotective heat shock proteins contributing to intestinal homeostasis (PubMed: [18005709](http://www.uniprot.org/citations/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 Cytometry](#)
- [Cell Culture](#)

Anti-SLC22A5 / OCTN2 Antibody - Images