

Slc22a3 antibody - middle region
Rabbit Polyclonal Antibody
Catalog # AI12364**Specification**

Slc22a3 antibody - middle region - Product Information

Application	WB
Primary Accession	O9WTW5
Other Accession	NM_011395 , NP_035525
Reactivity	Human, Mouse, Rat, Pig, Bovine, Dog
Predicted	Human, Mouse, Pig, Bovine, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	61kDa KDa

Slc22a3 antibody - middle region - Additional Information**Gene ID** 20519**Alias Symbol** **EMT, Oct3, Orct3, Slca22a3****Other Names**

Solute carrier family 22 member 3, Organic cation transporter 3, Slc22a3, Oct3

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 ul of distilled water. Final anti-Slc22a3 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions

Slc22a3 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Slc22a3 antibody - middle region - Protein Information**Name** Slc22a3 {ECO:0000312|MGI:MGI:1333817}**Function**

Electrogenic voltage-dependent transporter that mediates the transport of a variety of organic cations such as endogenous bioactive amines, cationic drugs and xenobiotics (PubMed:10966924, PubMed:18513366). Cation cellular uptake or release is driven by the electrochemical potential, i.e. membrane potential and concentration gradient (PubMed:10966924). Functions as a Na(+)- and Cl(-)- independent, bidirectional uniporter (By similarity). Implicated in monoamine neurotransmitters uptake such as dopamine, adrenaline/epinephrine, noradrenaline/norepinephrine, homovanillic acid, histamine, serotonin and

tyramine, thereby supporting a role in homeostatic regulation of aminergic neurotransmission in the brain (PubMed:18513366, PubMed:19416912). Transports dopaminergic neuromodulators cyclo(his-pro) and salsolinol with low efficiency (By similarity). May be involved in the uptake and disposition of cationic compounds by renal clearance from the blood flow (PubMed:10966924). May contribute to regulate the transport of cationic compounds in testis across the blood-testis-barrier (By similarity). Mediates the transport of polyamine spermidine and putrescine (By similarity). Mediates the bidirectional transport of polyamine agmatine (By similarity). Also transports guanidine (PubMed:10966924). May also mediate intracellular transport of organic cations, thereby playing a role in amine metabolism and intracellular signaling (PubMed:27659446).

Cellular Location

Cell membrane; Multi-pass membrane protein. Apical cell membrane {ECO:0000250|UniProtKB:O75751}; Multi-pass membrane protein. Basolateral cell membrane {ECO:0000250|UniProtKB:O75751}; Multi-pass membrane protein. Mitochondrion membrane Endomembrane system. Nucleus membrane. Nucleus outer membrane {ECO:0000250|UniProtKB:O88446}. Note=Located to neuronal and glial endomembranes, including mitochondrial and nuclear membranes

Tissue Location

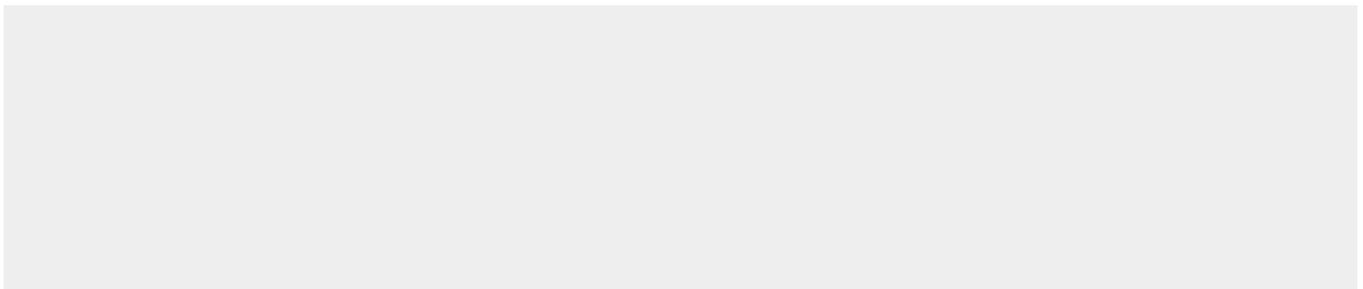
Highly expressed in placenta (PubMed:10966924, PubMed:9933568). Highly expressed in kidney cortex (PubMed:10966924) In kidney, expressed specifically in the proximal and distal convoluted tubules and within Bowman capsule (PubMed:10966924). Expressed in brain, particularly in dopaminergic neurons of the substantia nigra compacta, non-aminergic neurons of the ventral tegmental area, substantia nigra reticulata, locus coeruleus, hippocampus and cortex (PubMed:18513366). In brain, also detected in astrocytes in the substantia nigra reticulata, several hypothalamic nuclei and nigrostriatal region (PubMed:18513366, PubMed:19416912). Expressed in neurons and glial cells of amygdala (PubMed:27659446)

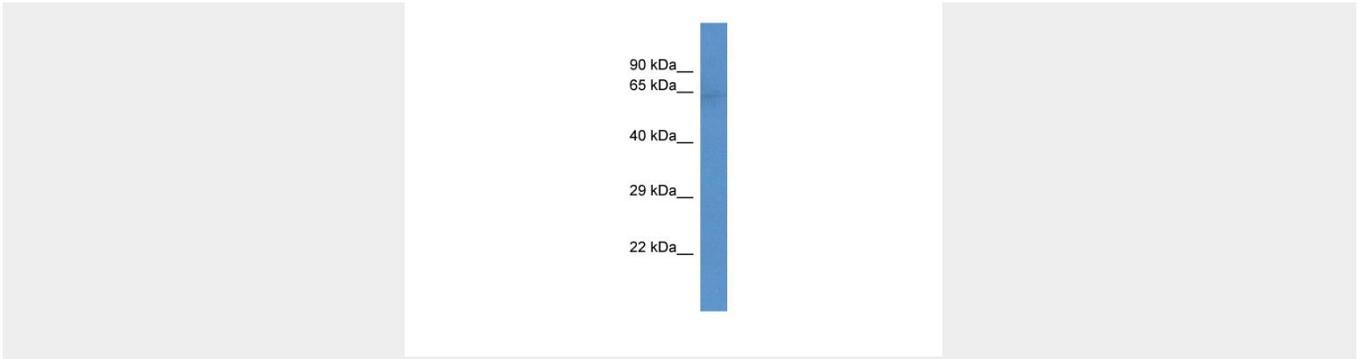
Slc22a3 antibody - middle region - Protocols

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](#)

Slc22a3 antibody - middle region - Images





90 kDa
65 kDa
40 kDa
29 kDa
22 kDa

WB Suggested Anti-Slc22a3 Antibody Titration: 1.0 $\mu\text{g/ml}$
Positive Control: Mouse Heart