

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

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**Slc22a3 antibody - middle region - Product Information**

Application	WB
Primary Accession	<a href="#">O9WTW5</a>
Other Accession	<a href="#">NM_011395</a> , <a href="#">NP_035525</a>
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:<a href="http://www.uniprot.org/citations/10966924" target="\_blank">10966924</a>, PubMed:<a href="http://www.uniprot.org/citations/18513366" target="\_blank">18513366</a>). Cation cellular uptake or release is driven by the electrochemical potential, i.e. membrane potential and concentration gradient (PubMed:<a href="http://www.uniprot.org/citations/10966924" target="\_blank">10966924</a>). 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:<a href="http://www.uniprot.org/citations/18513366" target="\_blank">18513366</a>, PubMed:<a href="http://www.uniprot.org/citations/19416912" target="\_blank">19416912</a>). 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:<a href="http://www.uniprot.org/citations/10966924" target="\_blank">10966924</a>). 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:<a href="http://www.uniprot.org/citations/10966924" target="\_blank">10966924</a>). May also mediate intracellular transport of organic cations, thereby playing a role in amine metabolism and intracellular signaling (PubMed:<a href="http://www.uniprot.org/citations/27659446" target="\_blank">27659446</a>).

### 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

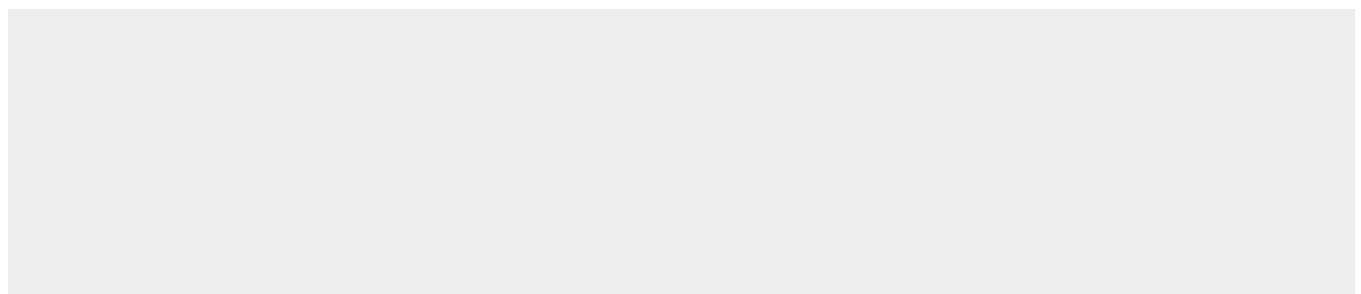
Highly expressed in placenta (PubMed:10966924, PubMed:9933568). Highly expressed in kidney cortex (PubMed:10966924) In kidney, expressed specifically in the proximal and distal convoluted tubules and within Bowman capsule (PubMed:10966924). Expressed in brain, particularly in dopaminergic neurons of 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 µg/ml  
Positive Control: Mouse Heart