

**SLC7A2 Antibody (C-Terminus)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS11088****Specification**

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**SLC7A2 Antibody (C-Terminus) - Product Information**

Application	IHC-P
Primary Accession	<a href="#">P52569</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	72kDa KDa
Dilution	IHC-P ~ ~ N/A

**SLC7A2 Antibody (C-Terminus) - Additional Information****Gene ID** 6542**Other Names**

Cationic amino acid transporter 2, CAT-2, CAT2, Low affinity cationic amino acid transporter 2, Solute carrier family 7 member 2, SLC7A2, ATRC2, CAT2

**Target/Specificity**

Human SLC7A2. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

**Reconstitution & Storage**

Long term: -70°C; Short term: +4°C

**Precautions**

SLC7A2 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

**SLC7A2 Antibody (C-Terminus) - Protein Information****Name** SLC7A2 ([HGNC:11060](#))**Function**

Functions as a permease involved in the transport of the cationic amino acids (L-arginine, L-lysine, L-ornithine and L-homoarginine); the affinity for its substrates differs between isoforms created by alternative splicing (PubMed: <http://www.uniprot.org/citations/28684763> target="\_blank">28684763</a>, PubMed: <http://www.uniprot.org/citations/9174363> target="\_blank">9174363</a>). May play a role in classical or alternative activation of macrophages via its role in arginine transport (By similarity).

**Cellular Location**

Cell membrane; Multi-pass membrane protein

**Tissue Location**

Expressed at high levels in the skeletal muscle, placenta and ovary. Expressed at intermediate levels in the liver and pancreas and at low levels in the kidney and heart

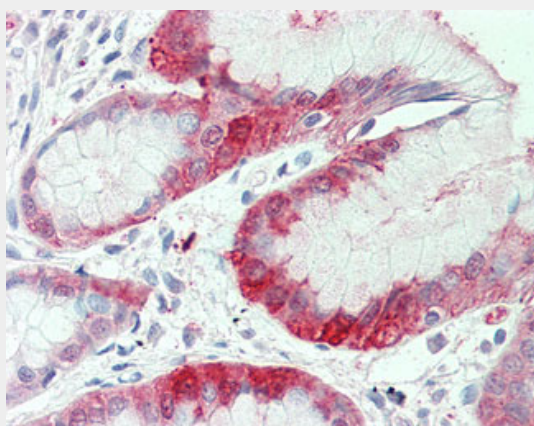
**Volume**

50 µl

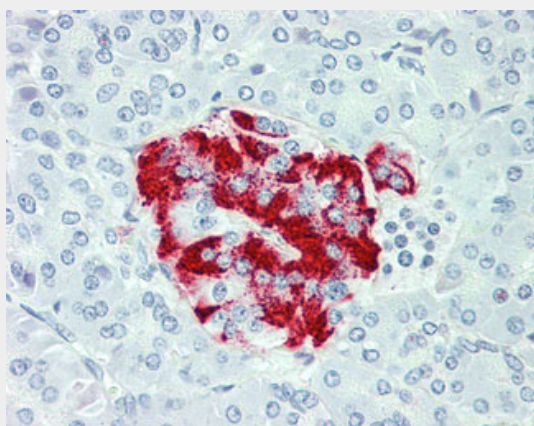
**SLC7A2 Antibody (C-Terminus) - Protocols**

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](#)

**SLC7A2 Antibody (C-Terminus) - Images**

Anti-SLC7A2 antibody ALS11088 IHC of human stomach.



Anti-SLC7A2 antibody ALS11088 IHC of human pancreas.

**SLC7A2 Antibody (C-Terminus) - Background**

Functions as permease involved in the transport of the cationic amino acids (arginine, lysine and ornithine); the affinity for its substrates differs between isoforms created by alternative splicing. Isoform 1 functions as permease that mediates the transport of the cationic amino acids (arginine, lysine and ornithine), and it has much higher affinity for arginine than isoform 2. Isoform 2 functions as low-affinity, high capacity permease involved in the transport of the cationic amino acids (arginine, lysine and ornithine) (PubMed:9174363). May play a role in classical or alternative activation of macrophages via its role in arginine transport.

#### **SLC7A2 Antibody (C-Terminus) - References**

Hoshida R.,et al.Genomics 38:174-178(1996).  
Closs E.I.,et al.Biochemistry 36:6462-6468(1997).  
Nusbaum C.,et al.Nature 439:331-335(2006).  
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.  
Bechtel S.,et al.BMC Genomics 8:399-399(2007).