

Product datasheet for **TA358504**

SLC7A5 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	Expected reactivity: Human Homology: Human: 100%
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	56kDa
Gene Name:	solute carrier family 7 member 5
Database Link:	NP_003477 Entrez Gene 8140 Human Q01650



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Background:

SLC7A5 is a sodium-independent, high-affinity transport of large neutral amino acids such as phenylalanine, tyrosine, leucine, arginine and tryptophan, when associated with SLC3A2/4F2hc. SLC7A5 is involved in cellular amino acid uptake. SLC7A5 acts as an amino acid exchanger. SLC7A5 is involved in the transport of L-DOPA across the blood-brain barrier, and that of thyroid hormones triiodothyronine (T3) and thyroxine (T4) across the cell membrane in tissues such as placenta. SLC7A5 plays a role in neuronal cell proliferation (neurogenesis) in brain. SLC7A5 is involved in the uptake of methylmercury (MeHg) when administered as the L-cysteine or D,L-homocysteine complexes, and hence plays a role in metal ion homeostasis and toxicity. SLC7A5 is involved in the cellular activity of small molecular weight nitrosothiols, via the stereoselective transport of L-nitrosocysteine (L-CNSO) across the transmembrane. SLC7A5 may play an important role in high-grade gliomas. SLC7A5 mediates blood-to-retina L-leucine transport across the inner blood-retinal barrier which in turn may play a key role in maintaining large neutral amino acids as well as neurotransmitters in the neural retina. SLC7A5 acts as the major transporter of tyrosine in fibroblasts.

Synonyms:

4F2LC; CD98; CD98LC; D16S469E; E16; hLAT1; LAT1; MPE16

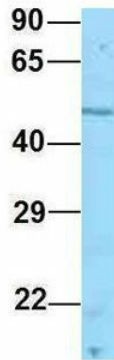
Protein Families:

Druggable Genome, Transmembrane

Product images:

WB Suggested Anti-SLC7A5 Antibody
Titration: 1.0 ug/ml
Positive Control: Jurkat Whole Cell

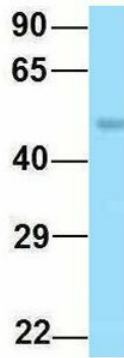
SLC7A5



Rabbit Anti-SLC7A5
 Sample Type: Human HepG2
 Antibody Concentration: 1ug/mL

Host: Rabbit
 Target Name: SLC7A5
 Sample Type: Human HepG2
 Antibody Dilution: 1.0ug/ml
 SLC7A5 is supported by BioGPS gene expression data to be expressed in HepG2

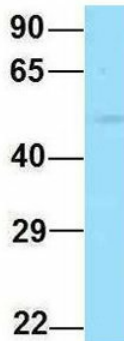
SLC7A5



Rabbit Anti-SLC7A5
 Sample Type: Human 721_B
 Antibody Concentration: 1ug/mL

Host: Rabbit
 Target Name: SLC7A5
 Sample Type: Human 721_B
 Antibody Dilution: 1.0ug/ml
 SLC7A5 is supported by BioGPS gene expression data to be expressed in 721_B

SLC7A5



Rabbit Anti-SLC7A5
 Sample Type: Human HeLa
 Antibody Concentration: 1ug/mL

Host: Rabbit
 Target Name: SLC7A5
 Sample Type: Human HeLa
 Antibody Dilution: 1.0ug/ml
 SLC7A5 is supported by BioGPS gene expression data to be expressed in HeLa