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## anti-SLC7A5 antibody (AA 101-200)

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**Publications** 



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Quantity:	100 μL	
Target:	SLC7A5	
Binding Specificity:	AA 101-200	
Reactivity:	Human, Mouse, Rat, Pig	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This SLC7A5 antibody is un-conjugated	
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc))	

#### **Product Details**

Immunogen:	KLH conjugated synthetic peptide derived from human SLC7A5
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Pig, Rat
Predicted Reactivity:	Dog,Cow,Chicken,Rabbit
Purification:	Purified by Protein A.

### **Target Details**

Target:	SLC7A5
Alternative Name:	SLC7A5 (SLC7A5 Products)

#### **Target Details**

Background:

Synonyms: Large neutral amino acids transporter small subunit 1, 4F2 light chain, 4F2 LC, 4F2LC, CD98 light chain, Integral membrane protein E16, L-type amino acid transporter 1, hLAT1, Solute carrier family 7 member 5, y+ system cationic amino acid transporter, SLC7A5, CD98LC, LAT1, MPE16

Background: Sodium-independent, high-affinity transport of large neutral amino acids such as phenylalanine, tyrosine, leucine, arginine and tryptophan, when associated with SLC3A2/4F2hc. Involved in cellular amino acid uptake. Acts as an amino acid exchanger. 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. Plays a role in neuronal cell proliferation (neurogenesis) in brain. 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. Involved in the cellular activity of small molecular weight nitrosothiols, via the stereoselective transport of L-nitrosocysteine (L-CNSO) across the transmembrane. May play an important role in high-grade gliomas. 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. Acts as the major transporter of tyrosine in fibroblasts.

Gene ID:

8140

UniProt:

001650

#### **Application Details**

**Application Notes:** 

WB 1:300-5000

ELISA 1:500-1000

IHC-P 1:200-400

IF(ICC) 1:50-200

Restrictions:

For Research Use only

#### Handling

Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin

#### Handling

Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

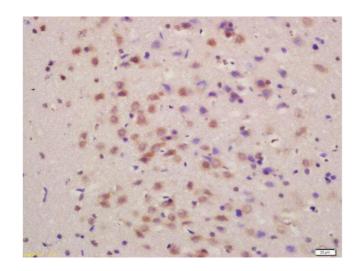
#### **Publications**

Product cited in:

Beals, Sukiennik, Nallabelli, Emmons, van Vliet, Young, Ulanov, Li, Paluska, De Lisio, Burd: "Anabolic sensitivity of postprandial muscle protein synthesis to the ingestion of a protein-dense food is reduced in overweight and obese young adults." in: **The American journal of clinical nutrition**, Vol. 104, Issue 4, pp. 1014-1022, (2016) (PubMed).

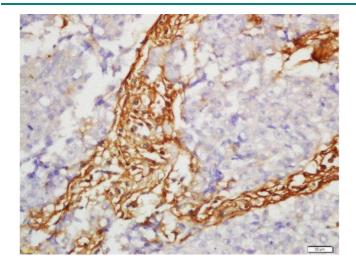
Mayers, Torrence, Danai, Papagiannakopoulos, Davidson, Bauer, Lau, Ji, Dixit, Hosios, Muir, Chin, Freinkman, Jacks, Wolpin, Vitkup, Vander Heiden: "Tissue of origin dictates branched-chain amino acid metabolism in mutant Kras-driven cancers." in: **Science (New York, N.Y.)**, Vol. 353, Issue 6304, pp. 1161-5, (2016) (PubMed).

#### **Images**



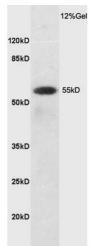
#### **Immunohistochemistry (Paraffin-embedded Sections)**

**Image 1.** Formalin-fixed and paraffin embedded rat brain labeled with Anti-SLC7A5 Polyclonal Antibody, Unconjugated at 1:200 followed by conjugation to the secondary antibody and DAB staining



#### Immunohistochemistry (Paraffin-embedded Sections)

**Image 2.** Formalin-fixed and paraffin embedded human lung carcinoma labeled with Anti-SLC7A5 Polyclonal Antibody, Unconjugated at 1:200 followed by conjugation to the secondary antibody and DAB staining



#### **Western Blotting**

**Image 3.** Mouse brain lysates probed with Rabbit Anti-SLC7A5 Polyclonal Antibody (ABIN1387470) at 1:200 in 4 °C. Followed by conjugation to secondary antibody at 1:3000 90min in 37 °C. Predicted and observed band size: 55kDa