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# anti-SLC7A5 antibody (AA 101-200) (AbBy Fluor® 647)



# Publication



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Overview	
Quantity:	100 μL
Target:	SLC7A5
Binding Specificity:	AA 101-200
Reactivity:	Human, Mouse, Rat, Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SLC7A5 antibody is conjugated to AbBy Fluor® 647
Application:	Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc))
Product Details	
Immunogen:	KLH conjugated synthetic peptide derived from human SLC7A5
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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)
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: Q01650

#### **Application Details**

Application Notes: IF(ICC) 1:50-200

Restrictions: For Research Use only

### Handling

Format:	Liquid
Concentration:	1 μg/μL
Buffer:	Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	-20 °C

### Handling

Storage Comment: Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

Expiry Date: 12 months

Publications

Product cited in: Reyer, Zentek, Männer, Youssef, Aumiller, Weghuber, Wimmers, Mueller: "Possible Molecular Mechanisms by Which an Essential Oil Blend from Star Anise, Rosemary, Thyme, and Oregano and Saponins Increase the Performance and Ileal Protein Digestibility of Growing Broilers." in:

Journal of agricultural and food chemistry, Vol. 65, Issue 32, pp. 6821-6830, (2017) (PubMed).