

Datasheet for ABIN1388586

**anti-SLC7A5 antibody (AA 101-200) (Alexa Fluor 647)**[Go to Product page](#)**1** Publication

## 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 Alexa Fluor 647
Application:	Western Blotting (WB), 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 ( <a href="#">SLC7A5 Products</a> )
Background:	Synonyms: Large neutral amino acids transporter small subunit 1, 4F2 light chain, 4F2 LC,

## Target Details

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

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

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Expiry Date: 12 months

## Publications

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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](#)).