

Datasheet for ABIN1406476

**anti-SLC7A5 antibody (AA 101-200) (Cy5)**[Go to Product page](#)

## 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 Cy5                            |
| 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. |
| Expiry Date:     | 12 months                                                                         |