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# anti-SLC7A5 antibody (C-Term)





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100 μL
SLC7A5
C-Term
Human, Mouse
Rabbit
Polyclonal
This SLC7A5 antibody is un-conjugated
Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

#### **Product Details**

Immunogen:	A synthesized peptide derived from human SLC7A5, corresponding to a region within C-terminal amino acids.
Isotype:	IgG
Specificity:	SLC7A5 Antibody detects endogenous levels of total SLC7A5.
Predicted Reactivity:	Pig,Zebrafish,Bovine,Sheep,Rabbit,Chicken,Xenopus
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink <sup>TM</sup> Coupling Resin (Thermo Fisher Scientific).

## **Target Details**

Target:	SLC7A5	

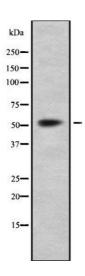
# Target Details

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Alternative Name:	SLC7A5 (SLC7A5 Products)	
Background:	Description: 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. When associated with LAPTM4B,	
	recruits SLC3A2 and SLC7A5 to lysosomes to promote leucine uptake into these organelles	
	and is required for mTORC1 activation (PubMed:25998567).	
	Gene: SLC7A5	
Molecular Weight:	55 kDa	
Gene ID:	8140	
UniProt:	Q01650	
Application Details		
Application Notes:	WB 1:1000-3000, IF/ICC 1:100-1:500, IHC 1:50-1:200, ELISA(peptide) 1:20000-1:40000	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Concentration:	1 mg/mL	
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.	
Preservative:	Sodium azide	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which	

# Handling

	should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

## **Images**



## **Western Blotting**

**Image 1.** Western blot analysis SLC7A5 using K562 whole cell lysates