

# Immunotag™ SLC3A2 Antibody

Antibody Specification	
Catalog No.	ITA7528
Product Description	Immunotag™ SLC3A2 Antibody
Size	100 µg, 200 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	SLC3A2
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC,ELISA
Recommended Dilution	WB 1:500-1:2000 IHC 1:50-1:200
Concentration	1 mg/ml
Reactive Species	Human
Host Species	Rabbit
Immunogen	A synthesized peptide derived from human SLC3A2
Specificity	SLC3A2 Antibody detects endogenous levels of total SLC3A2
Purification	The antiserum was purified by peptide affinity chromatography.
Form	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt
Gene Name	SLC3A2
Accession No.	P08195

## Antibody Specification

Alternate Names	4F2; 4F2 cell surface antigen heavy chain; 4F2 cell-surface antigen heavy chain; 4F2 heavy chain; 4F2 heavy chain antigen; 4F2_HUMAN; 4F2hc; 4T2HC; Antigen defined by monoclonal antibody 4F2 heavy chain; Antigen identified by monoclonal antibodies 4F2 TRA1.10 TROP4 and T43; CD 98; CD98; CD98 antigen; CD98 heavy chain; CD98HC; Heavy chain; Lymphocyte activation antigen 4F2 large subunit; MDU 1; MDU1; Monoclonal antibody 44D7; NACAE; Slc3a2; Solute carrier family 3 (activators of dibasic and neutral amino acid transport) member 2; Solute carrier family 3 member 2;
Description	Required for the function of light chain amino-acid transporters. Involved in sodium-independent, high-affinity transport of large neutral amino acids such as phenylalanine, tyrosine, leucine, arginine and tryptophan. Involved in guiding and targeting of LAT1 and LAT2 to the plasma membrane. When associated with SLC7A6 or SLC7A7 acts as an arginine/glutamine exchanger, following an antiport mechanism for amino acid transport, influencing arginine release in exchange for extracellular amino acids. Plays a role in nitric oxide synthesis in human umbilical vein endothelial cells (HUVECs) via transport of L-arginine. Required for normal and neoplastic cell growth. When associated with SLC7A5/LAT1, is also 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. 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. When associated with SLC7A5 or SLC7A8, involved in the cellular activity of small molecular weight nitrosothiols, via the stereoselective transport of L-nitrosocysteine (L-CNSO) across the transmembrane. Together with ICAM1, regulates the transport activity LAT2 in polarized intestinal cells, by generating and delivering intracellular signals. When associated with SLC7A5, plays an important role in transporting L-leucine from the circulating blood to the retina across the inner blood-retinal barrier. 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).
Cell Pathway/ Category	Primary Polyclonal Antibody
Protein MW	67kDa
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.