Datasheet for ABIN7237715

anti-SLC7A8 antibody (Extracellular)

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Overview

Quantity:	25 µL
Target:	SLC7A8
Binding Specificity:	AA 211-226, Extracellular
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SLC7A8 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunohistochemistry (IHC), Live Cell Imaging (LCI)

Product Details

Purpose:	A Rabbit Polyclonal antibody to LAT2 (SLC7A8) (extracellular)
Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: Peptide CKGEFFWLEPKNAFEN, corresponding to amino acid residues 211 - 226 of rat SLC7A8
Isotype:	IgG
Specificity:	Extracellular, 3rd loop.
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Mouse - identical, Human - 15 out of 16 amino acid residues identical
Characteristics:	Extracellular, 3rd loop

Product Details

Purification:	Affinity purified on immobilized antigen.

Target Details

Target:	SLC7A8
Alternative Name:	SLC7A8 (SLC7A8 Products)
Background:	Large Neutral Amino Acids Transporter Small Subunit 2, L-Type Amino Acid Transporter 2, Solute carrier family 7 member 8,L-type amino acid transporter (LAT) family are transporters responsible for the uptake of neutral amino acids into cells. The LATs family contain four different members LAT1 (SLC7A5), LAT2 (SLC7A8), LAT3 (SLC43A1) and LAT4 (SLC43A2). LATs transporters are known to carried out their function in an Na+ and pH independent manner1. In recent years, LATs family shown to participate in the uptake of thyroid hormones (THs) and their derivatives2. LAT2 (SLC7A8) is a transmembrane protein first discovered back in 1999 using sequence similarity to LAT1. According to the predicted membrane topology, LAT2 consists of 12 transmembrane domains (TMDs) and N- and C- termini located in the cytosol. LAT2 associate with the 4F2hc (4F2 antigen heavy chain, CD98 heavy chain) glycoprotein to form a dimer that act as a neutral amino acid transporter3. LAT2 is expressed in various tissues, including the intestinal wall, blood-brain barrier, and kidney. Mutations in LAT2 protein cause age-related hearing loss in mice and humans5. In addition, deletion LAT2 in mice led to increased incidence of cataract4,5. Alternative names: Large Neutral Amino Acids Transporter Small Subunit 2, L-Type Amino Acid Transporter 2, Solute carrier family 7 member 8
Gene ID:	84551
NCBI Accession:	NM_001267036
UniProt:	Q9WVR6

Application Details

Application Notes:	Antigen preadsorption control: 1 µg peptide per 1 µg antibody Application Dilutions Immunohistochemistry paraffin embedded sections ihc: 1:200 Application Dilutions Western blot wb: 1:200
Comment:	Negative Control: (ABIN7237180) Blocking Peptide: (ABIN7237180)

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Recosntitute with double distilled water (DDW) to a concentration of 1.0 mg/mL.
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4
Storage:	4 °C,-20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).