

Datasheet for ABIN719546  
**anti-SLC3A2 antibody (AA 231-280)**

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## Overview

Quantity:	100 µL
Target:	SLC3A2
Binding Specificity:	AA 231-280
Reactivity:	Human, Rat, Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SLC3A2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

## Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human CD98
Isotype:	IgG
Cross-Reactivity:	Human, Pig, Rat
Predicted Reactivity:	Mouse, Rabbit, Guinea Pig
Purification:	Purified by Protein A.

## Target Details

Target:	SLC3A2
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## Target Details

Alternative Name:	CD98 ( <a href="#">SLC3A2 Products</a> )
Background:	<p>Synonyms: 4F2, CD98, MDU1, 4F2HC, 4T2HC, NACAE, CD98HC, 4F2 cell-surface antigen heavy chain, 4F2 heavy chain antigen, Lymphocyte activation antigen 4F2 large subunit, Solute carrier family 3 member 2, SLC3A2</p> <p>Background: 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.</p>
Gene ID:	6520
UniProt:	<a href="#">P08195</a>

## Application Details

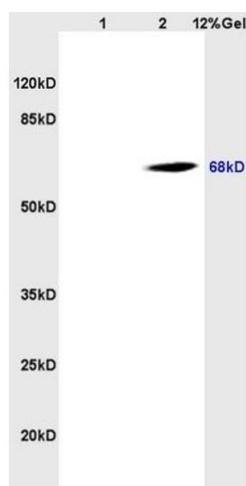
Application Notes:	WB 1:300-5000 ELISA 1:500-1000 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % 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:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

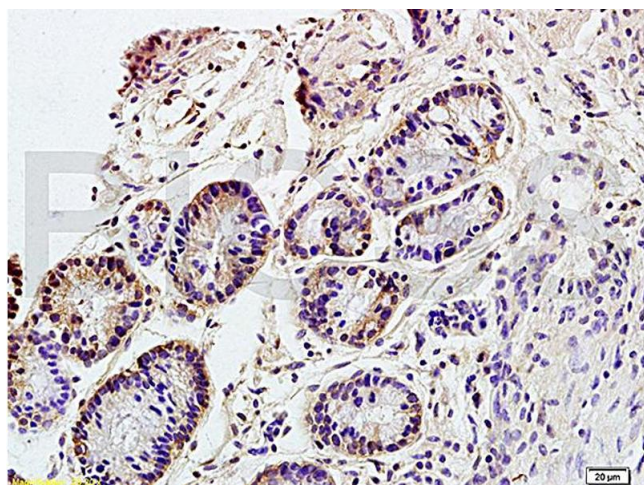
## Publications

Product cited in:	<p>Hutterer, Ebner, Riemenschneider, Willuweit, McCoy, Egger, Schröder, Wendl, Hellwig, Grosse, Menhart, Proescholdt, Fritsch, Urbach, Stockhammer, Roelcke, Galldiks, Meyer, Langen, Hau, Trinkka: "Epileptic Activity Increases Cerebral Amino Acid Transport Assessed by 18F-Fluoroethyl-L-Tyrosine Amino Acid PET: A Potential Brain Tumor Mimic." in: <b>Journal of nuclear medicine : official publication, Society of Nuclear Medicine</b>, Vol. 58, Issue 1, pp. 129-137, (2016) (<a href="#">PubMed</a>).</p> <p>Qiu, Qin, Luo, Zhang, Sun, Jiao, Li, Yin: "Protein Restriction with Amino Acid-Balanced Diets Shrinks Circulating Pool Size of Amino Acid by Decreasing Expression of Specific Transporters in the Small Intestine." in: <b>PLoS ONE</b>, Vol. 11, Issue 9, pp. e0162475, (2016) (<a href="#">PubMed</a>).</p>
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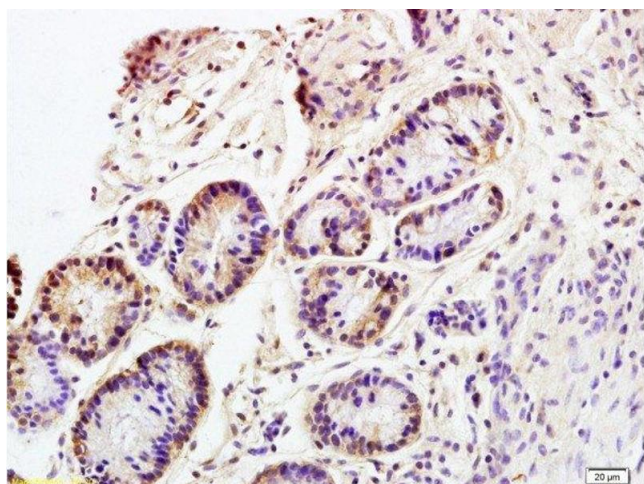
### SDS-PAGE

**Image 1.** Lane 1: rat brain lysates Lane 2: human colon carcinoma lysates probed with Anti CD98 Polyclonal Antibody, Unconjugated (ABIN719546) at 1:200 in 4 °C. Followed by conjugation to secondary antibody at 1:3000 90min in 37 °C. Predicted band 68kD. Observed band size: 68kD.



### Immunohistochemistry

**Image 2.** Formalin-fixed and paraffin embedded rat colitis tissue labeled with Anti CD98 Polyclonal Antibody, Unconjugated (ABIN719546) at 1:200 followed by conjugation to the secondary antibody and DAB staining



### Immunohistochemistry (Paraffin-embedded Sections)

**Image 3.** Formalin-fixed and paraffin embedded rat colitis tissue labeled with Anti CD98 Polyclonal Antibody, Unconjugated at 1:200 followed by conjugation to the secondary antibody and DAB staining