

## ARG55979 anti-CD98 antibody [UM7F8]

Package: 50 µg  
Store at: -20°C

### Summary

|                     |  |
|---------------------|--|
| Product Description | Mouse Monoclonal antibody [UM7F8] recognizes CD98  |
| Tested Reactivity   | Hu   |
| Tested Application  | FACS, FuncSt, ICC/IF   |
| Host                | Mouse  |
| Clonality           | Monoclonal   |
| Clone               | UM7F8  |
| Isotype             | IgG1   |
| Target Name         | CD98   |
| Species             | Human  |
| Immunogen           | The Molt-13 T cell line.   |
| Conjugation         | Un-conjugated  |
| Alternate Names     | MDU1; 4T2HC; CD98; 4F2hc; 4F2 cell-surface antigen heavy chain; CD98HC; 4F2HC; NACAE; Solute carrier family 3 member 2; CD antigen CD98; 4F2 heavy chain antigen; Lymphocyte activation antigen 4F2 large subunit; 4F2 |

### Application Instructions

| Application table | Application  | Dilution                         |
|-------------------|--|----------------------------------|
|                   | FACS   | 0.5 - 1 µg/10 <sup>6</sup> cells |
|                   | FuncSt   | Assay-dependent                  |
|                   | ICC/IF   | 0.5 - 1.0 µg/ml                  |
| Application Note  | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |                                  |

### Properties

|                     |  |
|---------------------|--|
| Form                | Liquid   |
| Purification        | Purification with Protein G.   |
| Buffer              | PBS (pH 7.4), 0.05% Sodium azide and 0.1 mg/ml BSA   |
| Preservative        | 0.05% Sodium azide   |
| Stabilizer          | 0.1 mg/ml BSA  |
| Concentration       | 0.2 mg/ml  |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed |

before use.

Note

For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

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Database links

[GeneID: 6520 Human](#)

[Swiss-port # P08195 Human](#)

Gene Symbol

SLC3A2

Gene Full Name

solute carrier family 3 (amino acid transporter heavy chain), member 2

Background

This gene is a member of the solute carrier family and encodes a cell surface, transmembrane protein. The protein exists as the heavy chain of a heterodimer, covalently bound through di-sulfide bonds to one of several possible light chains. The encoded transporter plays a role in regulation of intracellular calcium levels and transports L-type amino acids. Alternatively spliced transcript variants, encoding different isoforms, have been characterized. [provided by RefSeq, Nov 2010]

Function

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. [UniProt]

Calculated Mw

68 kDa

PTM

Phosphorylation on Ser-406; Ser-408 or Ser-410 and on Ser-527 or Ser-531 by ecto-protein kinases favors heterotypic cell-cell interactions.

Cellular Localization

Cell surface, cytoplasmic