

## Product datasheet for **SM3080P**

### CD98 (SLC3A2) Mouse Monoclonal Antibody [Clone ID: MEM-108]

#### Product data:

|                       |   |
|-----------------------|---|
| Product Type:         | Primary Antibodies  |
| Clone Name:           | MEM-108   |
| Applications:         | FC, IHC, IP   |
| Recommended Dilution: | <b>Flow Cytometry.</b><br><b>Immunoprecipitation.</b><br><b>Immunohistochemistry (paraffin sections):</b> 10 µg/ml.<br><i>Positive tissue:</i> Liver.   |
| Reactivity:           | Human   |
| Host:                 | Mouse   |
| Isotype:              | IgG1  |
| Clonality:            | Monoclonal  |
| Immunogen:            | RAJI human Burkitt's lymphoma cell line   |
| Specificity:          | The antibody reacts with CD98, a 125 kDa disulfide-linked heterodimer (80 kDa glycosylated heavy chain + 45 kDa non-glycosylated light chain). CD98 is expressed on T lymphocytes (upon activation) and activated NK cells; it is also present at low levels on B lymphocytes, NK cells, monocytes and platelets. |
| Formulation:          | Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4<br>State: Purified<br>State: Liquid Ig fraction   |
| Concentration:        | lot specific  |
| Purification:         | Protein-A affinity chromatography; purity: > 95% (by SDS-PAGE)  |
| Conjugation:          | Unconjugated  |
| Storage:              | Store undiluted at 2-8°C.<br><b>DO NOT FREEZE!</b>  |
| Stability:            | Shelf life: one year from despatch.   |
| Gene Name:            | solute carrier family 3 member 2  |
| Database Link:        | <a href="#">Entrez Gene 6520 Human P08195</a>   |



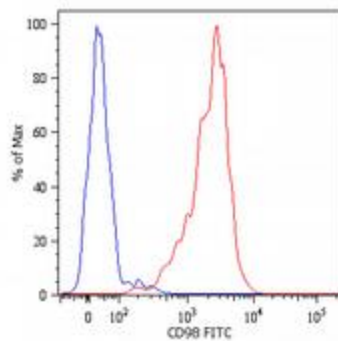
[View online »](#)

**Background:**

CD98 (4F2) is a type II transmembrane glycoprotein which serves as the heavy chain of the heterodimeric amino acid transporters (HATs). CD98, linked to various light chains by disulfide bond, is responsible for cell surface expression and basolateral localization of this transporter complex in polarized epithelial cells and also interacts with b1 integrins and increases their affinity for ligand. Besides its roles in amino acid transport, CD98 is thus involved in cell fusion and activation. It is implicated in regulation of cellular differentiation, growth and apoptosis.

**Synonyms:**

4F2hc, MDU1

**Product images:**

Surface staining of human peripheral blood cells with anti-human CD98 (MEM-108) FITC. Cells in the monocyte gate were used for analysis.