

Product datasheet for **AM33318PU-T**

CD98 (SLC3A2) Mouse Monoclonal Antibody [Clone ID: UM7F8]

Product data:

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| Product Type: | Primary Antibodies |
| Clone Name: | UM7F8 |
| Applications: | FC, IF, IHC, IP, WB |
| Recommended Dilution: | Comitogenic with soluble anti-CD2 and immobilized anti-CD3 monoclonal Antibodies. Western Blot: 0.5-1 µg/ml. Flow Cytometry: 0.5-1 µg/10 ⁶ cells. Immunofluorescence: 0.5-1 µg/ml. Immunoprecipitation: 1-2 µg/500 µg protein. Immunohistochemistry on Frozen Sections: 0.5-1 µg/ml for 30 minutes at RT. Positive Control: HL-60, Jurkat, MG63, HUT-78, K562, YT, U937, Hep-G2 cells, Tonsil. |
| Reactivity: | Human |
| Host: | Mouse |
| Isotype: | IgG1 |
| Clonality: | Monoclonal |
| Immunogen: | Molt 13 T cell line. |
| Specificity: | This Monoclonal Antibody UM7F8 recognizes CD98. The CD98 molecule is a heterodimer made of a disulfide-linked glycosylated heavy chain of approximately 80-90 kDa and a non-glycosylated light chain. The heavy chain is a type II integral membrane protein containing a 50-81 amino acid NH ₂ -terminal cytoplasmic domain, a single transmembrane sequence, and a large extracellular domain. CD98 is detected on monocytes and activated cells. Cellular Localization: Cell surface, cytoplasmic. |
| Formulation: | 10mM PBS State: Purified State: Liquid purified IgG fraction from Bioreactor Concentrate Stabilizer: 0.05% BSA Preservative: 0.05% Sodium Azide |
| Concentration: | lot specific |
| Purification: | Protein A/G Chromatography |
| Conjugation: | Unconjugated |



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| Storage: | Store undiluted at 2-8°C. DO NOT FREEZE! |
| Stability: | Shelf life: one year from despatch. |
| Predicted Protein Size: | Heterodimer (125 kDa) made of a disulfide-linked glycosylated heavy chain of approximately 80-90 kDa and a non-glycosylated light chain |
| Gene Name: | solute carrier family 3 member 2 |
| Database Link: | Entrez Gene 6520 Human P08195 |
| Background: | CD98 exists as a heterodimer containing a disulphide-linked glycosylated heavy chain and a non-glycosylated light chain. It 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 disulfide 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. |
| Synonyms: | 4F2hc, MDU1 |