

## Product datasheet for **AM33318PU-S**

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

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	UM7F8
Applications:	FC, IF, IHC, IP, WB
Recommended Dilution:	<b>Comitogenic with soluble anti-CD2 and immobilized anti-CD3 monoclonal Antibodies.</b> <b>Western Blot:</b> 0.5-1 µg/ml. <b>Flow Cytometry:</b> 0.5-1 µg/10 <sup>6</sup> cells. <b>Immunofluorescence:</b> 0.5-1 µg/ml. <b>Immunoprecipitation:</b> 1-2 µg/500 µg protein. <b>Immunohistochemistry on Frozen Sections:</b> 0.5-1 µg/ml for 30 minutes at RT. <b>Positive Control:</b> 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 <sub>2</sub> -terminal cytoplasmic domain, a single transmembrane sequence, and a large extracellular domain. CD98 is detected on monocytes and activated cells. <b>Cellular Localization:</b> 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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<b>Storage:</b>	Store undiluted at 2-8°C. <b>DO NOT FREEZE!</b>
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Predicted Protein Size:</b>	Heterodimer (125 kDa) made of a disulfide-linked glycosylated heavy chain of approximately 80-90 kDa and a non-glycosylated light chain
<b>Gene Name:</b>	solute carrier family 3 member 2
<b>Database Link:</b>	<a href="#">Entrez Gene 6520 Human P08195</a>
<b>Background:</b>	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.
<b>Synonyms:</b>	4F2hc, MDU1