

Product datasheet for **TA386112**

CD98 (SLC3A2) Mouse Monoclonal Antibody [Clone ID: HBJ127]

Product data:

Product Type:	Primary Antibodies
Clone Name:	HBJ127
Applications:	BI, ELISA, IF
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1, kappa
Clonality:	Monoclonal
Immunogen:	HBJ127 was obtained from hybridomas generated by the fusion of mouse myeloma cells and spleen cells from mice which had been immunized with T24 hyman bladder cancer cells.
Specificity:	<p>HBJ127 binds to the CD98 heavy chain at an epitope consisting of residues AFS (aa 442-444) (Itoh et al, 2007). The antibody has not been shown to cross-react with other species. CD98 is expressed at high levels on monocytes and at very low level on peripheral blood T and B lymphocytes, splenocytes, NK cells and granulocytes. CD98 is a disulfide-linked and glycosylated type II integral membrane protein. This protein has roles in normal and neoplastic cell growth and is required for the function of light chain amino acid transporters. It is also involved in sodium-independent transport of large neutral amino acids and in guiding and targeting LAT1 and LAT2 to the plasma membrane. When associated with SLC7A6 or SLC7A7, CD98 acts as an arginine/glutamine exchanger.</p> <p>HBJ127 can inhibit lymphocyte activation and proliferation in vitro (Yagita and Hashimoto, 1986), as well as inhibit the growth of human bladder tumors (Yagita, 1986). The antibody also mediates the inhibition of DNA synthesis of Con A-stimulated lymphocytes at concentrations greater than 13 µg/ml, the inhibition of mAb 6-1-13-induced c-src expression and the inhibition of mAb 6-1-13-induced polykaryocyte formation. In addition, HBJ127 can enhance expression of the mannose receptor on the surface of monocytes derived from healthy humans. HBJ127 shows positive staining of murine L929 cells transiently expressing human CD98 heavy chain in IF studies. The antibody can also be used to detect CD98 heavy chain by ELISA.</p>
Formulation:	PBS with 0.02% Proclin 300.
Concentration:	lot specific



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Conjugation:	Unconjugated
Storage:	Please store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C. Avoid freeze and thaw cycles.
Stability:	3 years from dispatch.
Gene Name:	solute carrier family 3 member 2
Database Link:	Entrez Gene 6520 Human P08195
Synonyms:	4F2; 4F2HC; 4T2HC; CD98; CD98HC; MDU1; NACAE