



1B-268-C100

Monoclonal Antibody to CD98 Biotin conjugated (0.1 mg)

Clone:	MEM-108
Isotype:	Mouse IgG1
Specificity:	The antibody MEM-108 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. HLDA VI; WS Code BP 409 HLDA VI; WS Code NL N-L017
Regulatory Status:	RUO
Immunogen:	RAJI human Burkitt's lymphoma cell line
Species Reactivity:	Human
Preparation:	The purified antibody is conjugated with Biotin-LC-NHS under optimum conditions. The reagent is free of unconjugated biotin.
Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability:	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
Usage:	Biotinylated antibody is designed for indirect immunofluorescence analysis by Flow Cytometry. Suggested working dilution is 1:200. Indicated dilution is recommended starting point for use of this product. Working concentrations should be determined by the investigator.
Expiration:	See vial label
Lot Number:	See vial label
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 beta1 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.

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Antibodies

References:

- *Liu X, Charrier L, Gewirtz A, Sitaraman S, Merlin D: CD98 and intracellular adhesion molecule I regulate the activity of amino acid transporter LAT-2 in polarized intestinal epithelia. *J Biol Chem.* 2003 Jun 27;278(26):23672-7.
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- *Cai S, Bulus N, Fonseca-Siesser PM, Chen D, Hanks SK, Pozzi A, Zent R: CD98 modulates integrin beta1 function in polarized epithelial cells. *J Cell Sci.* 2005 Mar 1;118(Pt 5):889-99.
- *Dalton P, Christian HC, Redman CW, Sargent IL, Boyd CA: Differential effect of cross-linking the CD98 heavy chain on fusion and amino acid transport in the human placental trophoblast (BeWo) cell line. *Biochim Biophys Acta.* 2007 Mar;1768(3):401-10.
- *Leukocyte Typing VI., Kishimoto T. et al. (Eds.), Garland Publishing Inc. (1997).

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