

Product Data Sheet

Purified anti-human CD98

Catalog # / Size: 315601 / 25 µg
315602 / 100 µg

Clone: MEM-108

Isotype: Mouse IgG1, κ

Immunogen: Burkitt's lymphoma cell line Raji

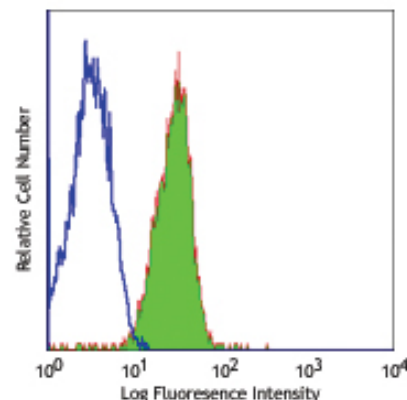
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C.



Human peripheral blood lymphocytes stained with purified MEM-108, followed by anti-mouse IgGs FITC

Applications:

Applications: FC - *Quality tested*
IP - *Reported in the literature*

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤2.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for the relevant formats) include: immunoprecipitation.

Application References: 1. Kishimoto T, *et al.* Eds. 1997. Leucocyte Typing VI. Garland Publishing Inc. New York.
2. Cantor J, *et al.* 2011. *J. Immunol.* 187:851. PubMed.

Description: CD98 is a 125 kD disulfide-linked heterodimer protein also known as 4F2 and FRP-1. It is broadly expressed on activated and transformed cells (hematopoietic and non-hematopoietic), and at low levels on quiescent cells. CD98 has been characterized as a potential amino acid transporter (neutral and dibasic amino acids) that is involved in lymphocyte activation and integrin signaling. CD98 is composed of a light chain (45 kD) and a heavy chain (80 kD). Studies with knock-out mice indicate that the CD98 heavy chain is involved in integrin-dependent cell spreading and protection against anchorage deprivation-induced apoptosis. The MEM-108 antibody is useful for flow cytometry and immunoprecipitation.

Antigen References: 1. Leukocyte Typing VI. Kishimoto T, *et al.* (Eds.) Garland Publishing Inc. (1997)
2. Bron C, *et al.* 1986. *J. Immunol.* 137:397.
3. Lumadue JA, *et al.* 1987. *Proc. Natl. Acad. Sci.* 84:9204.
4. Mastroberardino L, *et al.* 1998. *Nature* 395:288.

Related Products:

Product
Purified Mouse IgG1, κ Isotype Ctrl
APC Goat anti-mouse IgG (minimal x-reactivity)
PE Goat anti-mouse IgG (minimal x-reactivity)
Cell Staining Buffer
RBC Lysis Buffer (10X)

Clone
MOPC-21
Poly4053
Poly4053

Application
FC, ICFC, ICC, IF, IHC, IP, WB
FC
FC
FC, ICC, ICFC
FC, ICFC



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