

## 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

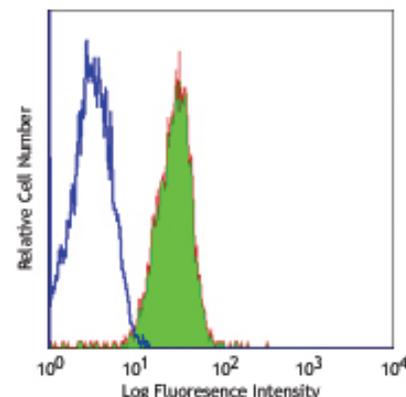
**Reactivity:** Human

**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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