

1F-275-T100

Monoclonal Antibody to CD108 Fluorescein (FITC) conjugated (100 tests)

Clone:	MEM-150
Isotype:	Mouse IgM
Specificity:	The antibody MEM-150 reacts with CD108 (JMH blood group antigen), a 80 kDa GPI-anchored glycoprotein expressed on various cell types including erythrocytes, lymphoblasts; at low levels it is present on circulating lymphocytes. HLDA V; WS Code AS S017 HLDA V; WS Code BP BP347 HLDA VI; WS Code BP 401 HLDA VI; WS Code BP 475 HLDA VI; WS Code NL N-L156 HLDA VI; WS Code P PR-65
Regulatory Status:	RUO
Immunogen:	HPB-ALL human T cell line
Species Reactivity:	Human
Preparation:	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary.
Storage Buffer:	The reagent is provided in stabilizing Tris buffered saline (TBS) solution containing 15 mM sodium azide.
Storage / Stability:	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
Usage:	The reagent is designed for Flow Cytometry analysis of human blood cells using 20 µl reagent / 100 µl of whole blood or 10 ⁶ cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests.
Expiration:	See vial label
Lot Number:	See vial label
Background:	CD108 (Sema7A) is a GPI-anchored semaphorin family member, which enhances central and peripheral axonal growth and is required for proper axon track formation during embryogenesis. CD108 also regulates osteoclast differentiation and pre-osteoblastic cell migration, and in immune system affects cell proliferation, chemotaxis and cytokine release. On erythrocytes CD108 defines the JMH (John-Milton-Hagen) human blood group. CD108 signalizes through its receptors α 8211; plexin C1 and beta1 integrins.

For laboratory research only, not for drug, diagnostic or other use.

**Antibodies**

- References:**
- *Pasterkamp RJ, Peschon JJ, Spriggs MK, Kolodkin AL: Semaphorin 7A promotes axon outgrowth through integrins and MAPKs. *Nature*. 2003 Jul 24;424(6947):398-405.
 - *Delorme G, Saltel F, Bonnelye E, Jurdic P, Machuca-Gayet I: Expression and function of semaphorin 7A in bone cells. *Biol Cell*. 2005 Jul;97(7):589-97.
 - *Pasterkamp RJ, Kolk SM, Hellemons AJ, Kolodkin AL: Expression patterns of semaphorin7A and plexinC1 during rat neural development suggest roles in axon guidance and neuronal migration. *BMC Dev Biol*. 2007 Aug 29;7:98.
 - *Suzuki K, Okuno T, Yamamoto M, Pasterkamp RJ, Takegahara N, Takamatsu H, Kitao T, Takagi J, Rennert PD, Kolodkin AL, Kumanogoh A, Kikutani H: Semaphorin 7A initiates T-cell-mediated inflammatory responses through alpha1beta1 integrin. *Nature*. 2007 Apr 5;446(7136):680-4.
 - *Mudad R, Rao N, Angelisova P, Horejsi V, Telen MJ.: Evidence that CDw108 membrane protein bears the JMH blood group antigen. *Transfusion*. 1995 Jul;35(7):566-70.
 - *Leukocyte Typing V., Schlossman S. et al. (Eds.), Oxford University Press (1995).
 - *Leukocyte Typing VI., Kishimoto T. et al. (Eds.), Garland Publishing Inc. (1997).
 - *Angelisova P, Drbal K, Cerny J, Hilgert I, Horejsi V: Characterization of the human leukocyte GPI-anchored glycoprotein CDw108 and its relation to other similar molecules. *Immunobiology*. 1999 Jun;200(2):234-45.

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