

## ARG65488 anti-CD108 antibody [MEM-150] (FITC)

Package: 50 tests

Store at: 4°C

### Summary

Product Description	FITC-conjugated Mouse Monoclonal antibody [MEM-150] recognizes CD108
Tested Reactivity	Hu
Tested Application	FACS
Specificity	The clone 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
Host	Mouse
Clonality	Monoclonal
Clone	MEM-150
Isotype	IgM
Target Name	CD108
Species	Human
Immunogen	HPB-ALL human T cell line
Conjugation	FITC
Alternate Names	H-Sema-L; Sema L; Semaphorin-7A; Sema K1; CDw108; SEMAK1; CD antigen CD108; CD108; John-Milton-Hargen human blood group Ag; Semaphorin-L; Semaphorin-K1; JMH; H-SEMA-K1; SEMAL; JMH blood group antigen

### Application Instructions

Application table	Application	Dilution
	FACS	20 µl / 10 <sup>6</sup> cells

**Application Note** \* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

### Properties

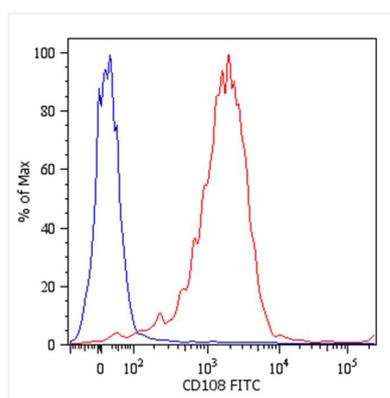
Form	Liquid
Purification Note	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary.
Buffer	TBS, 15 mM Sodium azide and 0.2% (w/v) high-grade protease free BSA

Preservative	15 mM Sodium azide
Stabilizer	0.2% (w/v) high-grade protease free BSA
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

Database links	<a href="#">GeneID: 8482 Human</a> <a href="#">Swiss-port # O75326 Human</a>
Gene Symbol	SEMA7A
Gene Full Name	semaphorin 7A, GPI membrane anchor (John Milton Hagen blood group)
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 signals through its receptors – plexin C1 and beta1 integrins.
Function	Plays an important role in integrin-mediated signaling and functions both in regulating cell migration and immune responses. Promotes formation of focal adhesion complexes, activation of the protein kinase PTK2/FAK1 and subsequent phosphorylation of MAPK1 and MAPK3. Promotes production of proinflammatory cytokines by monocytes and macrophages. Plays an important role in modulating inflammation and T-cell-mediated immune responses. Promotes axon growth in the embryonic olfactory bulb. Promotes attachment, spreading and dendrite outgrowth in melanocytes. [UniProt]
Research Area	Cell Biology and Cellular Response antibody; Immune System antibody; Neuroscience antibody
Calculated Mw	75 kDa

## Images



ARG65488 anti-CD108 antibody [MEM-150] (FITC) FACS image

Flow Cytometry: HPB-ALL human peripheral blood T cell leukemia cell line stained with ARG65488 anti-CD108 antibody [MEM-150] (FITC).

Total viable cells were used for analysis.