ARG62704
anti-CD108 antibody [MEM-150]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [MEM-150] recognizes CD108
Tested Reactivity	Hu
Tested Application	FACS, IP, WB
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	Un-conjugated
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	4 µg/ml
IP	Assay-dependent
WB	Assay-dependent

Application Note: WB: Under non-reducing condition.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

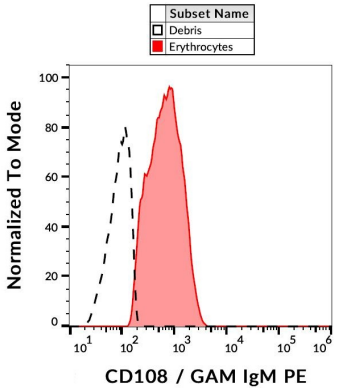
Form	Liquid

Purification	Purified from ascites by precipitation methods and ion exchange chromatography.
Purity	> 95% (by SDS-PAGE)
Buffer	TBS (pH 8.0) and 15 mM Sodium azide
Preservative	15 mM Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. 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	GeneID: 8482 Human Swiss-port # O75326 Human
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 ebryogenesis. 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 – 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



ARG62704 anti-CD108 antibody [MEM-150] FACS image

Flow Cytometry: Human peripheral blood stained with ARG62704 anti-CD108 antibody [MEM-150], followed by incubation with PE labelled Goat anti-Mouse IgM antibody.