

CD48 Monoclonal Antibody (MEM-102)

Catalog NumberMA1-19119

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human, Non-human primate
Host/Isotope	Mouse / IgG1	Tested Applications	Dilution *
Class	Monoclonal		
Type	Antibody		
Clone	MEM-102		
Immunogen	Burkitt's lymphoma cell line Raji.		
Conjugate	Unconjugated	Flow Cytometry (Flow)	2 µg/mL
Form	Liquid	Immunohistochemistry (Paraffin) (IHC (P))	5-10 µg/mL
Concentration	1 mg/mL	Immunoprecipitation (IP)	Assay-dependent
Purification	Protein A	Western Blot (WB)	Assay-dependent
Storage buffer	PBS, pH 7.4	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Contains	15mM sodium azide		
Storage Conditions	4° C, do not freeze		

Background/Target Information

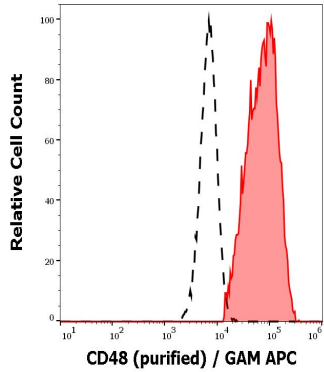
CD48 (Blast-1) belongs to the CD2 subset of the Ig superfamily that includes CD2, CD2F-10, CD58, CD84, CD150, CD229, CD244 and others. These molecules bind to the same or another members of the Ig family, thus mediating homotypic or heterotypic adhesion. CD48 is a GPI-anchored protein broadly expressed on hematopoietic cells and serves as a high affinity ligand for 2B4 and low affinity ligand for CD2. 2B4-CD48 interaction among NK cells and NK-T cells regulates cell proliferation. Further, signaling through CD48 results in eosinophil activation and CD48 expression is increased in several infectious diseases. CD48 is strongly expressed on lymphocytes and monocytes, weakly on granulocytes but is absent on platelets, fibroblasts, epithelium and endothelium. CD48 is one of marker for detecting the defects of GPI anchoring structure on the patients with paroxysmal nocturnal hemoglobinuria (PNH) and serves as a low affinity ligand for CD2. 2B4-CD48 interaction may be involved in the pathology of allergic airway diseases and provide a pharmacological target for the treatment of diseases such as allergic rhinitis and asthma.

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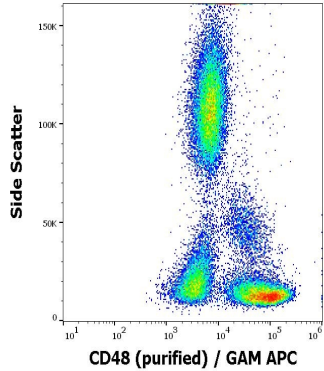
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CD48 Antibody (MA1-19119) in Flow

Separation of CD48 positive lymphocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood using anti-human CD48 (MEM-102) purified Monoclonal antibody (Product # MA1-19119) (concentration in sample 3 µg/mL, GAM APC).



CD48 Antibody (MA1-19119) in Flow

Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD48 (MEM-102) purified Monoclonal antibody (Product # MA1-19119) (concentration in sample 3 µg/mL, GAM APC).

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