Datasheet for ABIN94157

anti-CD48 antibody

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Overview

Quantity:	0.1 mg
Target:	CD48
Reactivity:	Human, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD48 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Western Blotting (WB), Immunoprecipitation (IP), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Raji human Burkitt's lymphoma cell line
Clone:	MEM-102
Isotype:	IgG1
Specificity:	The antibody MEM-102 reacts with CD48 (Blast-1), a 40-47 kDa GPI-anchored extracellular membrane protein (immunoglobulin supergene family) widely expressed on hematopoietic cells, it is negative on granulocytes, platelets and erythrocytes.
Cross-Reactivity (Details):	Human, Non-Human Primates
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	CD48
Alternative Name:	CD48 (CD48 Products)
Background:	CD48 Molecule,CD48 (Blast-1) belongs to the CD2 subset of the Ig superfamily, which includes CD2, CD2F-10, CD58, CD84, CD150, CD229, CD244 and others. These molecules bind to the same or another members of their family, thus mediate 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. Signaling through CD48 results in eosinophil activation and CD48 expression is increased in several infectious diseases.,BCM1, BLAST, BLAST1, SLAMF2
Gene ID:	962
UniProt:	P09326

Application Details

Application Notes:	Flow cytometry: Recommended dilution: 2 µg/mL. Immunohistochemistry: Recommended dilution: 5-10 µg/mL.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	**Do not freeze.**
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

Product cited in:	Schatzlmaier, Supper, Göschl, Zwirzitz, Eckerstorfer, Ellmeier, Huppa, Stockinger: "Rapid multiplex analysis of lipid raft components with single-cell resolution." in: **Science signaling**,

Publications

Vol. 8, Issue 395, pp. rs11, (2015) (PubMed).

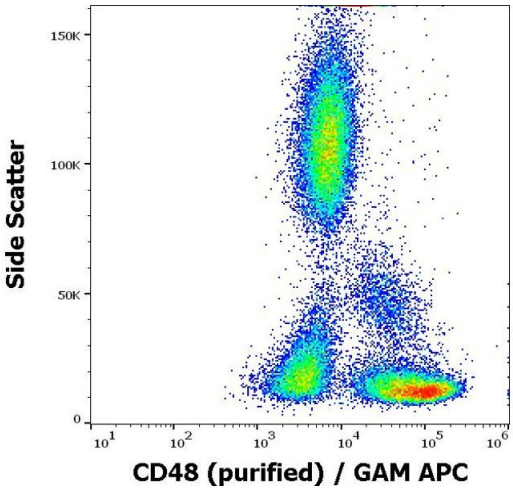
Drbal, Moertelmaier, Holzhauser, Muhammad, Fuertbauer, Howorka, Hinterberger, Stockinger, Schütz: "Single-molecule microscopy reveals heterogeneous dynamics of lipid raft components upon TCR engagement." in: **International immunology**, Vol. 19, Issue 5, pp. 675-84, (2007) (PubMed).

Angelisová, Drbal, Horejsí, Cerný: "Association of CD10/neutral endopeptidase 24.11 with membrane microdomains rich in glycosylphosphatidylinositol-anchored proteins and Lyn kinase." in: **Blood**, Vol. 93, Issue 4, pp. 1437-9, (1999) (PubMed).

Stulnig, Berger, Sigmund, Stockinger, Horejsí, Waldhäusl: "Signal transduction via glycosyl phosphatidylinositol-anchored proteins in T cells is inhibited by lowering cellular cholesterol." in: **The Journal of biological chemistry**, Vol. 272, Issue 31, pp. 19242-7, (1997) (PubMed).

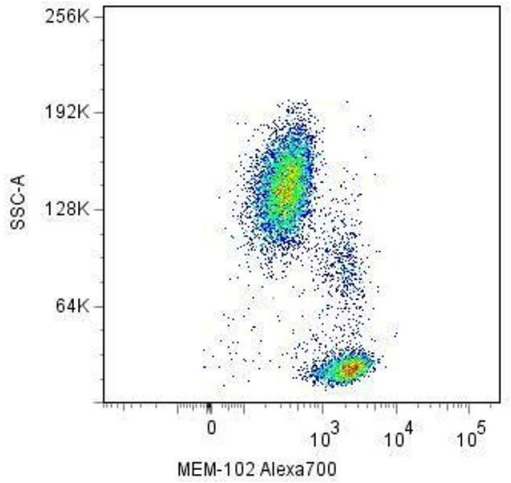
Bazil, Stefanová, Hilgert, Kristofová, Van?k, Bukovský, Horejsí: "Monoclonal antibodies against human leucocyte antigens. III. Antibodies against CD45R, CD6, CD44 and two newly described broadly expressed glycoproteins MEM-53 and MEM-102." in: **Folia biologica**, Vol. 35, Issue 5, pp. 289-97, (1990) (PubMed).

Images



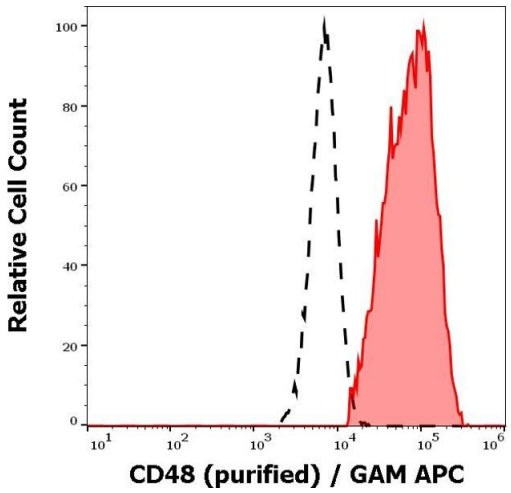
Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD48 (MEM-102) purified antibody (concentration in sample 3 µg/mL, GAM APC).



Flow Cytometry

Image 2. Surface staining of human peripheral blood cells with anti-CD48 (MEM-102) Alexa Fluor® 700.



Flow Cytometry

Image 3. 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 antibody (concentration in sample 3 µg/mL, GAM APC).

