

Datasheet for ABIN94158  
**anti-CD48 antibody (Biotin)**



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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 conjugated to Biotin
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 antibody is conjugated with biotin LC-NHS ester under optimum conditions and unconjugated antibody and free biotin are removed by size-exclusion chromatography.

## Target Details

Target:	CD48
Alternative Name:	CD48 ( <a href="#">CD48 Products</a> )
Background:	<p>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.</p> <p>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</p>
Gene ID:	962
UniProt:	<a href="#">P09326</a>

## Application Details

Application Notes:	Flow cytometry: Recommended dilution: 1-2 µg/mL.
Comment:	The purified antibody is conjugated with Biotin-LC-NHS under optimum conditions. The reagent is free of unconjugated biotin.
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:	<b>Do not freeze.</b> Avoid prolonged exposure to light.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

## Publications

Product cited in:

Schatzmaier, Supper, Göschl, Zwirnitz, Eckerstorfer, Ellmeier, Huppa, Stockinger: "Rapid multiplex analysis of lipid raft components with single-cell resolution." in: **Science signaling**, 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](#)).

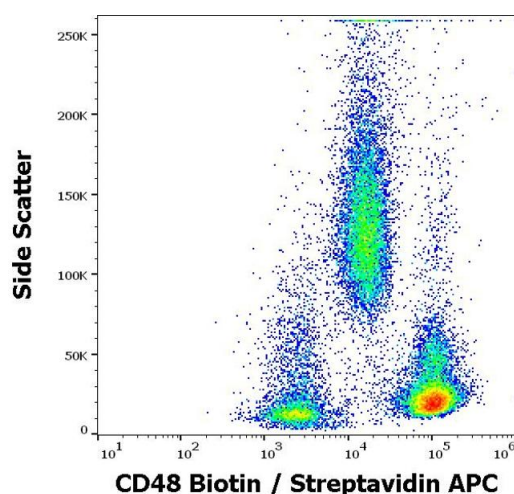
Angelisová, Drbal, Horejsí, Cerný: "Association of CD10/neutral endopeptidase 24.11 with membrane microdomains rich in glycosylphosphatidylinositol-anchored proteins and Lyn kinase." in: **Blood**, Vol. 93, Issue 4, pp. 1437-9, (1999) ([PubMed](#)).

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](#)).

Korínek, Stefanová, Angelisová, Hilgert, Horejsí: "The human leucocyte antigen CD48 (MEM-102) is closely related to the activation marker Blast-1." in: **Immunogenetics**, Vol. 33, Issue 2, pp. 108-12, (1991) ([PubMed](#)).

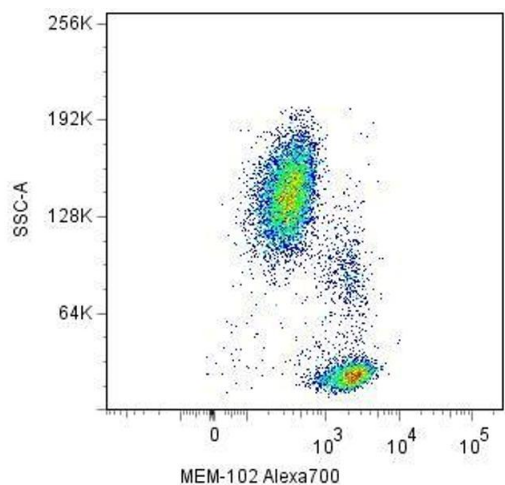
There are more publications referencing this product on: [Product page](#)

## Images



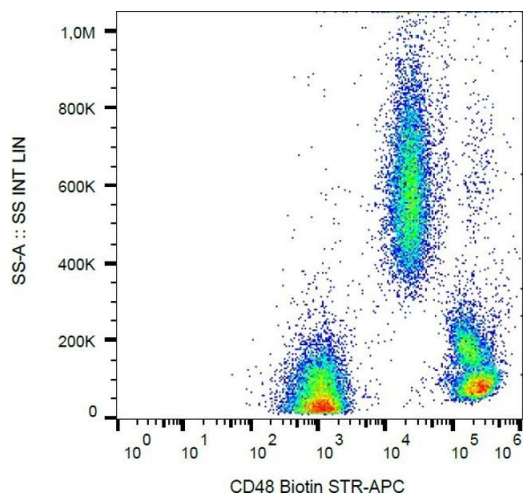
### Flow Cytometry

**Image 1.** Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD48 (MEM-102) Biotin antibody (GAM APC, concentration in sample 1,7 µg/mL).



#### Flow Cytometry

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



#### Flow Cytometry

**Image 3.** Flow cytometry analysis (surface staining) of human peripheral blood with anti-CD48 (MEM-102) biotin / streptavidin-APC.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN94158.