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Datasheet for ABIN94151
anti-CD46 antibody (Biotin)

2 Images

9 Publications

Overview

Quantity:	0.1 mg
Target:	CD46
Reactivity:	Human, Cow
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD46 antibody is conjugated to Biotin
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunoprecipitation (IP)

Product Details

Immunogen:	HPB-ALL human T cell line
Clone:	MEM-258
Isotype:	IgG1
Specificity:	The antibody MEM-258 recognizes an extracellular epitope on SCR4 (the membrane-proximal SCR) domain of CD46 (Membrane cofactor protein). CD46 is 56-66 kDa dimeric transmembrane protein expressed on T and B lymphocytes, platelets, monocytes, granulocytes, endothelial cells, epithelial cells and fibroblast, it is negative on erythrocytes.
Cross-Reactivity (Details):	Human, Bovine
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:	CD46
Alternative Name:	CD46 (CD46 Products)
Background:	CD46 Molecule,CD46 (MCP, membrane cofactor protein) is a multifunctional cell surface transmembrane protein that binds and inactivates C3b and C4b complement fragments, regulates T cell-induced inflammatory responses by either inhibiting (CD46-1 isoform) or increasing (CD46-2 isoform) the contact hypersensitivity reaction. CD46 also serves as a receptor for several human pathogens (both bacteria and viruses), and its ligation alters T lymphocyte polarization toward antigen-presenting cells or target cells, inhibiting lymphocyte function. CD46 is a protector of placental tissue and is also expressed on the inner acrosomal membrane of spermatozoa.,MCP, TLX, AHUS2, MIC10, MGC26544
Gene ID:	4179
UniProt:	P15529
Pathways:	Regulation of Actin Filament Polymerization

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:	Do not freeze. Avoid prolonged exposure to light.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

Product cited in:

Kälin, Amstutz, Gastaldelli, Wolfrum, Boucke, Havenga, DiGennaro, Liska, Hemmi, Greber: "Macropinocytotic uptake and infection of human epithelial cells with species B2 adenovirus type 35." in: **Journal of virology**, Vol. 84, Issue 10, pp. 5336-50, (2010) ([PubMed](#)).

Rebetz, Na, Su, Holmqvist, Edqvist, Nyberg, Widegren, Salford, Sjögren, Arnberg, Qian, Fan: "Fiber mediated receptor masking in non-infected bystander cells restricts adenovirus cell killing effect but promotes adenovirus host co-existence." in: **PLoS ONE**, Vol. 4, Issue 12, pp. e8484, (2009) ([PubMed](#)).

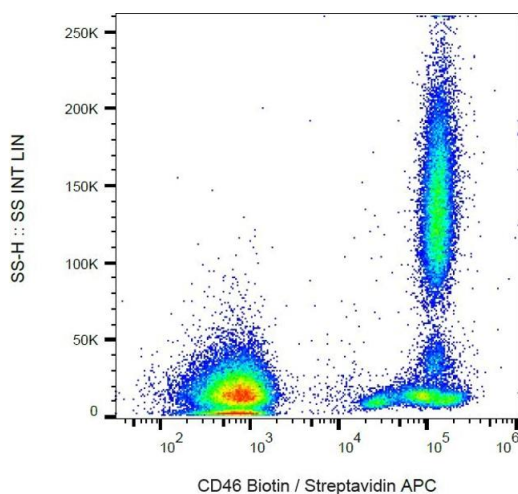
Wang, Tuve, Erdman, Lieber: "Receptor usage of a newly emergent adenovirus type 14." in: **Virology**, Vol. 387, Issue 2, pp. 436-41, (2009) ([PubMed](#)).

Hoffmann, Bayer, Heim, Potthoff, Nettelbeck, Wildner: "Evaluation of twenty-one human adenovirus types and one infectivity-enhanced adenovirus for the treatment of malignant melanoma." in: **The Journal of investigative dermatology**, Vol. 128, Issue 4, pp. 988-98, (2008) ([PubMed](#)).

Fleischli, Sirena, Lesage, Havenga, Cattaneo, Greber, Hemmi: "Species B adenovirus serotypes 3, 7, 11 and 35 share similar binding sites on the membrane cofactor protein CD46 receptor." in: **The Journal of general virology**, Vol. 88, Issue Pt 11, pp. 2925-34, (2007) ([PubMed](#)).

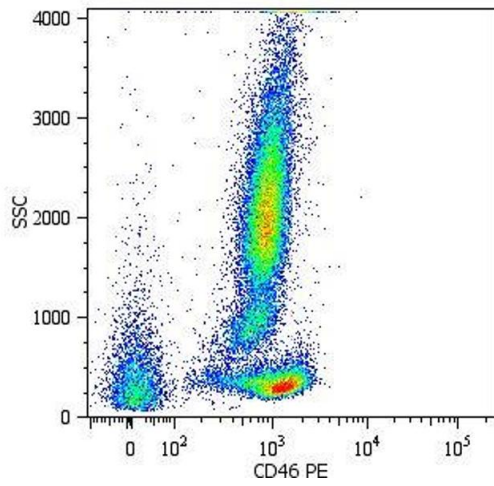
There are more publications referencing this product on: [Product page](#)

Images



Flow Cytometry

Image 1. Flow cytometry analysis (surface staining) of human peripheral blood cells with anti-CD46 (MEM-258) biotin.



Flow Cytometry

Image 2. Surface staining of human peripheral blood cells with anti-CD46 (MEM-258) PE.