

Datasheet for ABIN94152
anti-CD46 antibody (FITC)

2 Images

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Overview

Quantity:	100 tests
Target:	CD46
Reactivity:	Human, Cow
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD46 antibody is conjugated to FITC
Application:	Flow Cytometry (FACS)

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 fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome 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: The reagent is designed for analysis of human blood cells using 20 µL reagent / 100 µL of whole blood or 10 ⁶ cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests.
Comment:	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary.
Restrictions:	For Research Use only

Handling

Reconstitution:	No reconstitution is necessary.
Buffer:	Stabilizing 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.

Handling

Storage: 4 °C

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

Publications

Product cited in: Kälén, 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](#)).

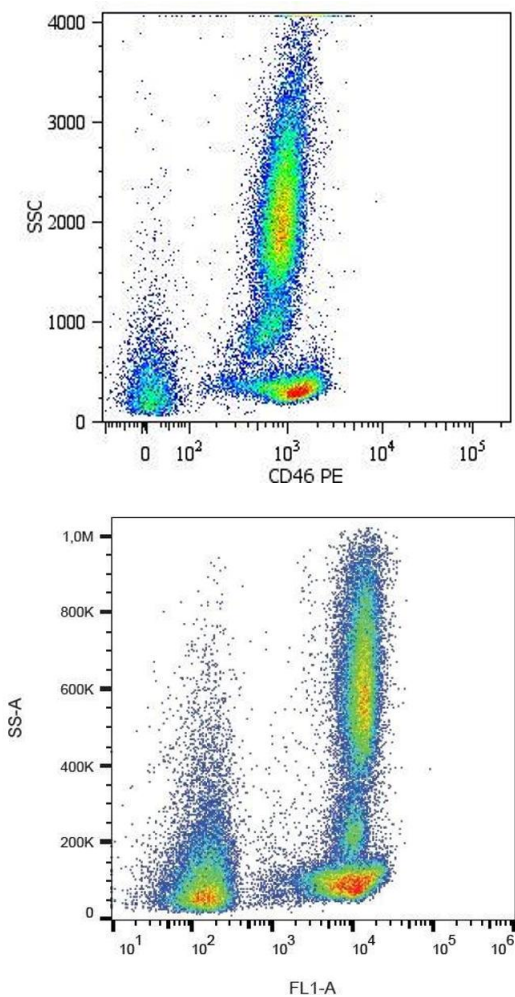
Wang, Tuve, Erdman, Lieber: "Receptor usage of a newly emergent adenovirus type 14." in: **Virology**, Vol. 387, Issue 2, pp. 436-41, (2009) ([PubMed](#)).

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Loré, Adams, Havenga, Precopio, Holterman, Goudsmit, Koup: "Myeloid and plasmacytoid dendritic cells are susceptible to recombinant adenovirus vectors and stimulate polyfunctional memory T cell responses." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 179, Issue 3, pp. 1721-9, (2007) ([PubMed](#)).

Fremaux-Bacchi, Moulton, Kavanagh, Dragon-Durey, Blouin, Caudy, Arzouk, Cleper, Francois, Guest, Pourrat, Seligman, Fridman, Loirat, Atkinson: "Genetic and functional analyses of membrane cofactor protein (CD46) mutations in atypical hemolytic uremic syndrome." in: **Journal of the American Society of Nephrology : JASN**, Vol. 17, Issue 7, pp. 2017-25, (2006) ([PubMed](#)).

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



Flow Cytometry

Image 1. Surface staining of human peripheral blood cells with anti-CD46 (MEM-258) PE.

Flow Cytometry

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