

## Datasheet for ABIN94153 **anti-CD46 antibody (PE)**



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### Overview

Quantity:	100 tests
Target:	CD46
Reactivity:	Human, Cow
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD46 antibody is conjugated to PE
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 R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

## Target Details

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Target:	CD46
Alternative Name:	CD46 ( <a href="#">CD46 Products</a> )
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:	<a href="#">P15529</a>
Pathways:	<a href="#">Regulation of Actin Filament Polymerization</a>

## Application Details

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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 <sup>6</sup> cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests.
Comment:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Restrictions:	For Research Use only

## Handling

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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:	<b>Do not freeze.</b> Avoid prolonged exposure to light.

## Handling

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Storage: 4 °C

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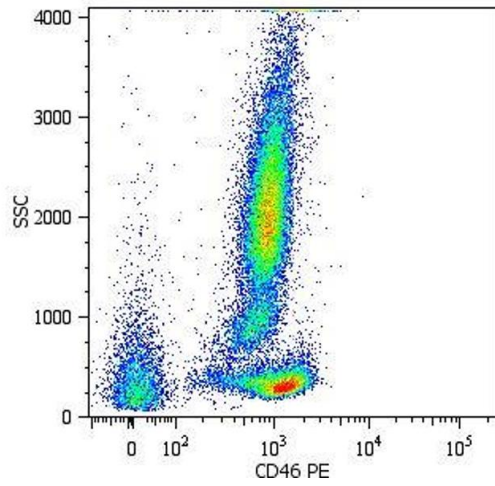
Storage Comment: Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

## Publications

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- 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](#)



### Flow Cytometry

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