Datasheet for ABIN125715

# anti-CD46 antibody

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## Overview

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

## Product Details

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| 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 by protein-A affinity chromatography. |
| Purity: | > 95 % (by SDS-PAGE) |

## Target Details

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| 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 alteres 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

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| Application Notes: | Flow cytometry: Recommended dilution: 1 µg/mL.<br>Western blotting: Non-reducing conditions. |
| Restrictions: | For Research Use only |

## Handling

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| Concentration: | 1 mg/mL |
| Buffer: | Phosphate buffered saline (PBS), pH 7.4 |
| Preservative: | Azide free |
| Handling Advice: | **Do not freeze.** |
| 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). |

## Publications

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

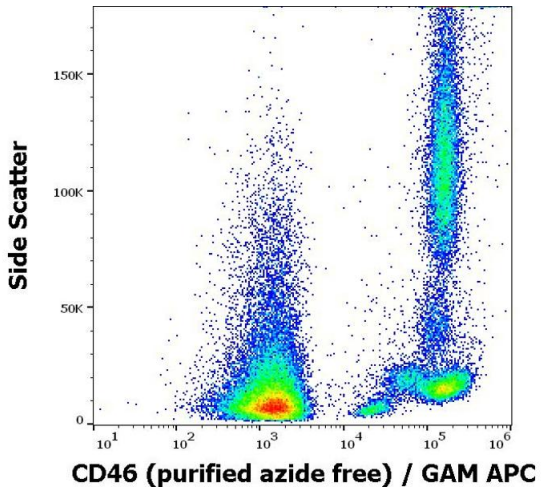
Hoffmann, Bayer, Heim, Potthoff, Nettelbeck, Wildner: "Evaluation of twenty-one human adenovirus types and one infectivity-enhanced adenovirus for the treatment of malignant melanoma." in: **The Journal of investigative dermatology**, Vol. 128, Issue 4, pp. 988-98, (2008) (PubMed).

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).

Weyand, Lee, Higashi, Cawley, Yoshihara, So: "Monoclonal antibody detection of CD46 clustering beneath Neisseria gonorrhoeae microcolonies." in: **Infection and immunity**, Vol. 74, Issue 4, pp. 2428-35, (2006) (PubMed).

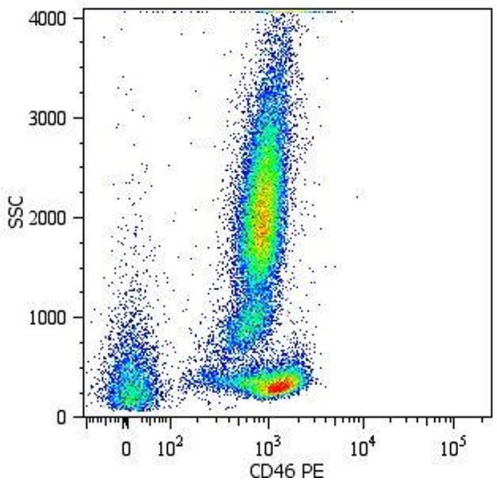
There are more publications referencing this product on: Product page

## Images



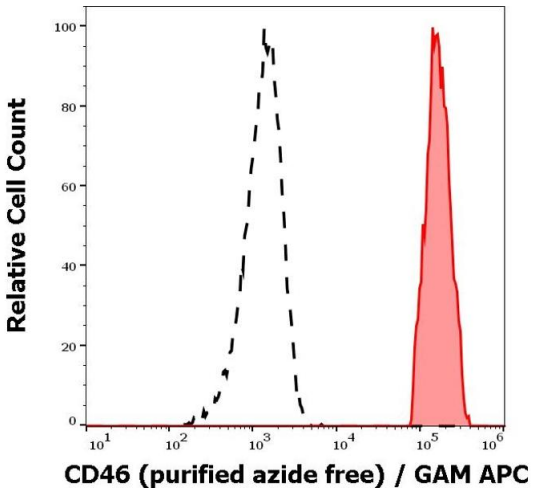

**Flow Cytometry**

**Image 1.** Flow cytometry surface staining pattern of human peripheral blood cells stained using anti-human CD46 (MEM-258) purified antibody (azide free, concentration in sample 0,5 µg/mL) GAM APC.




**Flow Cytometry**

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




**Flow Cytometry**

**Image 3.** Separation of human lymphocytes (red-filled) from erythrocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD46 (MEM-258) purified antibody (azide free, concentration in sample 0,5 µg/mL) GAM APC.