

## anti-human / -bovine CD46 (no azide)

monoclonal antibody MEM-258

Cat-No: **21270460**

100 µg in 100 µl

**Clone:** MEM-258

**Specificity:** The antibody MEM-258 recognizes an 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.

**Isotype subclass:** Mouse IgG1

**Immunogen:** HPB-ALL human T cell line

**Form:** Purified from ascites by protein-A affinity chromatography.

**Purity:** > 95% (by SDS-PAGE)

**Physical state:** Liquid

**Buffer/Additives/Preservative:** PBS (sterile solution); (pH 7.4)

**Expiration date:** The reagent is stable until the expiry date stated on the vial label.

**Storage conditions:** Aliquot and store at -20°C. Avoid freeze/thaw cycles. Should be handled under aseptic conditions.

**Application:** Flow Cytometry  
Immunoprecipitation  
Western Blotting: non reducing conditions

**References:** • Okada Nand others: Proc Natl Acad Sci U S A. 1995 Mar 28;92(7):2489-93

- \*Marie JC and others: Nat Immunol. 2002 Jul;3(7):659-66
- \*Gaggar A and others: Nat Med. 2003 Nov;9(11):1408-12.
- \*Liszewski MK and others: Springer Semin Immunopathol. 2005 Nov;27(3):345-58.
- \*Oliaro J and others: Proc Natl Acad Sci U S A. 2006 Dec 5;103(49):18685-90.

**Background:** 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.

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