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## Azide Free Mouse anti-CD46 / Membrane Cofactor Protein Monoclonal Antibody

**CLX52NA**

**Lot:**

**Size:** 0.1 mg

**Clone:** MEM-258

**Isotype:** Mouse IgG1

**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.

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

**Species Reactivity:** Human, Bovine

**Application:** **Flow Cytometry**  
**Immunoprecipitation**  
**Western Blotting**  
*Application note:* Non-reducing conditions.

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

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

**Concentration:** 1 mg/ml

**Storage Buffer:** Azide free phosphate buffered saline (PBS), approx. pH 7.4; 0.2 mm filter sterilized.

**Storage / Stability:** Store at 2-8°C. Do not use after expiration date stamped on vial label. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.

*Continued...*

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**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.

**References:**

- \*Okada N, Liszewski MK, Atkinson JP, Caparon M: Membrane cofactor protein (CD46) is a keratinocyte receptor for the M protein of the group A streptococcus. *Proc Natl Acad Sci U S A*. 1995 Mar 28;92(7):2489-93.
- \*Marie JC, Astier AL, Rivailler P, Rabourdin-Combe C, Wild TF, Horvat B: Linking innate and acquired immunity: divergent role of CD46 cytoplasmic domains in T cell induced inflammation. *Nat Immunol*. 2002 Jul;3(7):659-66.
- \*Gaggar A, Shayakhmetov DM, Lieber A: CD46 is a cellular receptor for group B adenoviruses. *Nat Med*. 2003 Nov;9(11):1408-12.
- \*Liszewski MK, Kemper C, Price JD, Atkinson JP: Emerging roles and new functions of CD46. *Springer Semin Immunopathol*. 2005 Nov;27(3):345-58.
- \*Oliaro J, Pasam A, Waterhouse NJ, Browne KA, Ludford-Menting MJ, Trapani JA, Russell SM: Ligation of the cell surface receptor, CD46, alters T cell polarity and response to antigen presentation. *Proc Natl Acad Sci U S A*. 2006 Dec 5;103(49):18685-90.

**Laboratory Reagent For Research Use Only**