

anti-human / -bovine CD46 PE-conjugated

PE -conjugated monoclonal antibody MEM-258

Cat-No: **21270464**

500 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

Form: The purified antibody is conjugated with R-Phycoerythrin (R-PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.

Physical state: Liquid

Buffer/Additives/Preservative: PBS containing 1 % BSA and 0.09 % sodium azide (pH 7.2)

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

Storage conditions: Store at 4 °C. Do not freeze. Avoid prolonged exposure to light.

Application: The reagent is designed for Flow Cytometry analysis.

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.

Warning: Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

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