

Product datasheet

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ARG62870 anti-CD46 antibody [MEM-258] (FITC)

Package: 100 tests Store at: 4°C

Summary

Clone

Product Description FITC-conjugated Mouse Monoclonal antibody [MEM-258] recognizes CD46

Tested Reactivity Hu, Bov
Tested Application FACS

Specificity The clone 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.

MEM-258

Host Mouse

Clonality Monoclonal

Isotype IgG1

Target Name CD46

Species Human

Immunogen HPB-ALL human T cell line

Conjugation FITC

Alternate Names MIC10; TLX; CD antigen CD46; Trophoblast leukocyte common antigen; AHUS2; TRA2.10; Membrane

cofactor protein; MCP

Application Instructions

Application table	Application	Dilution
	FACS	20 μl / 10^6 cells
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid	

Purification Note The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions.

The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary.

Buffer PBS, 15 mM Sodium azide and 0.2% (w/v) high-grade protease free BSA

Preservative 15 mM Sodium azide

Stabilizer 0.2% (w/v) high-grade protease free BSA

Storage instruction Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid

repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be

gently mixed before use.

Bioinformation

Database links GeneID: 280851 Bovine

GeneID: 4179 Human

Swiss-port # P15529 Human

Swiss-port # Q6VE48 Bovine

Gene Symbol CD46

Gene Full Name CD46 molecule, complement regulatory protein

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 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.

Function Acts as a cofactor for complement factor I, a serine protease which protects autologous cells against

complement-mediated injury by cleaving C3b and C4b deposited on host tissue. May be involved in the fusion of the spermatozoa with the oocyte during fertilization. Also acts as a costimulatory factor for T-cells which induces the differentiation of CD4+ into T-regulatory 1 cells. T-regulatory 1 cells suppress immune responses by secreting interleukin-10, and therefore are thought to prevent autoimmunity. A number of viral and bacterial pathogens seem to exploit this property and directly induce an

immunosuppressive phenotype in T-cells by binding to CD46. [UniProt]

Research Area Immune System antibody

Calculated Mw 44 kDa

PTM N-glycosylated on Asn-83; Asn-114 and Asn-273 in most tissues, but probably less N-glycosylated in

testis. N-glycosylation on Asn-114 and Asn-273 is required for cytoprotective function. N-glycosylation on Asn-114 is required for Measles virus binding. N-glycosylation on Asn-273 is required for Neisseria

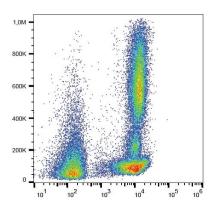
binding. N-glycosylation is not required for human adenovirus binding.

Extensively O-glycosylated in the Ser/Thr-rich domain. O-glycosylation is required for Neisseria binding

but not for Measles virus or human adenovirus binding.

In epithelial cells, isoforms B/D/F/H/J/L/3 are phosphorylated by YES1 in response to infection by Neisseria gonorrhoeae; which promotes infectivity. In T-cells, these isoforms may be phosphorylated by

LCK.



ARG62870 anti-CD46 antibody [MEM-258] (FITC) FACS image

Flow Cytometry: Human peripheral blood cells stained with ARG62870 anti-CD46 antibody [MEM-258] (FITC).