

Product datasheet

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ARG56050 anti-CD46 antibody [169-1-E4.3]

Package: 50 μg Store at: -20°C

Summary

Isotype

Product Description Mouse Monoclonal antibody [169-1-E4.3] recognizes CD46

Tested Reactivity Hu
Species Does Not React With Hrs

Tested Application FACS, ICC/IF

Host Mouse

Clone Monoclonal
Clone 169-1-E4.3

Target Name CD46

Species Human

Immunogen Stimulated Human leukocytes.

Conjugation Un-conjugated

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

cofactor protein; MCP

IgG2a, kappa

Application Instructions

Application table	Application	Dilution
	FACS	1 - 2 μg/10^6 cells
	ICC/IF	1 - 2 μg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form Liquid

Purification Purification with Protein G.

Buffer PBS (pH 7.4), 0.05% Sodium azide and 0.1 mg/ml BSA

Preservative 0.05% Sodium azide

Stabilizer 0.1 mg/ml BSA

Concentration 0.2 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

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

before use.

Bioinformation

Database links <u>GeneID: 4179 Human</u>

Swiss-port # P15529 Human

Gene Symbol CD46

Gene Full Name CD46 molecule, complement regulatory protein

Background The protein encoded by this gene is a type I membrane protein and is a regulatory part of the

complement system. The encoded protein has cofactor activity for inactivation of complement components C3b and C4b by serum factor I, which protects the host cell from damage by complement. In addition, the encoded protein can act as a receptor for the Edmonston strain of measles virus, human herpesvirus-6, and type IV pili of pathogenic Neisseria. Finally, the protein encoded by this gene may be involved in the fusion of the spermatozoa with the oocyte during fertilization. Mutations at this locus have been associated with susceptibility to hemolytic uremic syndrome. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jun 2010]

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]

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.

Cellular Localization Cell surface