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Anti-CD46 Picoband Antibody

Catalog # ABO12534

Product Information

Application	WB
Primary Accession	O88174
Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Membrane cofactor protein(CD46) detection. Tested with WB in Mouse.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	17221
Other Names	Membrane cofactor protein, CD46, Cd46, Mcp
Calculated MW	40881
Application Details	Western blot, 0.1-0.5 □g/ml, Mouse
Subcellular Localization	Isoform 1: Cytoplasmic vesicle, secretory vesicle, acrosome inner membrane; Single-pass type I membrane protein. Inner acrosomal membrane of spermatozoa.
Tissue Specificity	Present only in testis (at protein level). .
Source	Eukaryota
Protein Name	Membrane cofactor protein
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of mouse CD46 (46-76aa ELPRPFEAMELKGTPKLFYAVGEKIEYKCKK), different from the related human sequence by twelve amino acids, and from the related rat sequence by nine amino acids.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins.
Storage	At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also

be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.

Protein Information

Name	Cd46
Synonyms	Mcp
Function	May be involved in the fusion of the spermatozoa with the oocyte during fertilization.
Cellular Location	[Isoform 1]: Cytoplasmic vesicle, secretory vesicle, acrosome inner membrane; Single-pass type I membrane protein Note=Inner acrosomal membrane of spermatozoa
Tissue Location	Present only in testis (at protein level).

Background

CD46 complement regulatory protein, also known as CD46 (cluster of differentiation 46) and Membrane Cofactor Protein, is a protein which in humans is encoded by the CD46 gene. The protein encoded by this gene is a type I membrane protein and is a regulatory part of the complement system. And 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.

Images

Western blot analysis of CD46 expression in mouse testis extract (lane 1) and NIH3T3 whole cell lysates (lane 2). CD46 at 41KD, 70KD was detected using rabbit anti- CD46 Antigen Affinity purified polyclonal antibody (Catalog # ABO12534) at0.5 ??g/mL. The blot was developed using chemiluminescence (ECL) method .

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