

Datasheet for ABIN1881186

anti-CD46 antibody (AA 330-361)



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Overview

Quantity:	400 µL
Target:	CD46
Binding Specificity:	AA 330-361
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CD46 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This CD46 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 330-361 amino acids from the Central region of human CD46.
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	CD46
Alternative Name:	CD46 (CD46 Products)
Background:	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

Target Details

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.

Molecular Weight: 43747

NCBI Accession: [NP_002380](#), [NP_722548](#), [NP_758860](#), [NP_758861](#), [NP_758862](#), [NP_758863](#), [NP_758869](#), [NP_758871](#)

UniProt: [P15529](#)

Pathways: [Regulation of Actin Filament Polymerization](#)

Application Details

Application Notes: WB: 1:1000

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -20 °C

Expiry Date: 6 months

Publications

Product cited in: Riley, Kemper, Leung, Atkinson: "Characterization of human membrane cofactor protein (MCP; CD46) on spermatozoa." in: **Molecular reproduction and development**, Vol. 62, Issue 4, pp. 534-46, (2002) ([PubMed](#)).

Cervoni, Fenichel, Akhouni, Hsi, Rossi: "Characterization of a cDNA clone coding for human testis membrane cofactor protein (MCP, CD46)." in: **Molecular reproduction and development**,

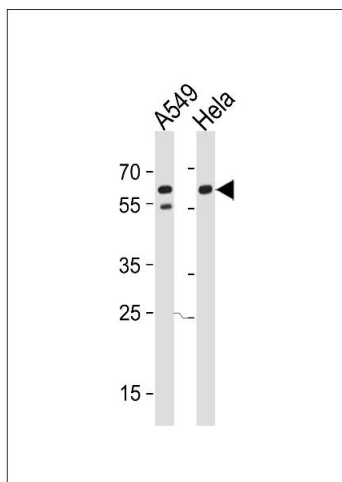
Vol. 34, Issue 1, pp. 107-13, (1993) ([PubMed](#)).

Post, Liszewski, Adams, Tedja, Miller, Atkinson: "Membrane cofactor protein of the complement system: alternative splicing of serine/threonine/proline-rich exons and cytoplasmic tails produces multiple isoforms that correlate with protein phenotype." in: **The Journal of experimental medicine**, Vol. 174, Issue 1, pp. 93-102, (1991) ([PubMed](#)).

Purcell, Russell, Deacon, Brown, Hooker, McKenzie: "Alternatively spliced RNAs encode several isoforms of CD46 (MCP), a regulator of complement activation." in: **Immunogenetics**, Vol. 33, Issue 5-6, pp. 335-44, (1991) ([PubMed](#)).

Lublin, Liszewski, Post, Arce, Le Beau, Rebentisch, Lemons, Seya, Atkinson: "Molecular cloning and chromosomal localization of human membrane cofactor protein (MCP). Evidence for inclusion in the multigene family of complement-regulatory proteins." in: **The Journal of experimental medicine**, Vol. 168, Issue 1, pp. 181-94, (1988) ([PubMed](#)).

Images



Western Blotting

Image 1. CD46 Antibody (ABIN1881186 and ABIN2843626) western blot analysis in A549, HeLa cell line lysates (35 μ g/lane). This demonstrates the CD46 antibody detected the CD46 protein (arrow).