

Rabbit anti-Human CD46 Polyclonal Antibody | anti-CD46 antibody

CD46 Antibody (C-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA283742	Rabbit	Human	Western Blot, Immunofluorescence, Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA

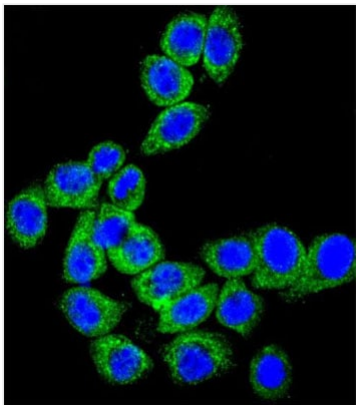
PRODUCT SYNONYMS

CD46; Polyclonal Antibody; CD46 Antibody (C-term); Membrane cofactor protein; TLX; Trophoblast leukocyte common antigen; MCP; MIC10; anti-CD46 antibody

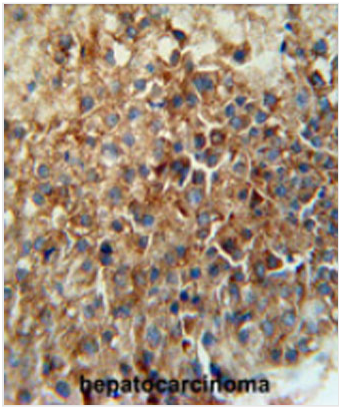
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This CD46 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 317-343 amino acids from the C-terminal region of human CD46.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Positions	317-343
Sequence Length	392
Applicable Applications for anti-CD46 antibody	WB (Western Blot), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA
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 immuneresponses by secreting interleukin-10, and therefore are thought to prevent autoimmunity
Cellular Location	Cytoplasmic vesicle, secretory vesicle, acrosome inner membrane; Single-pass type I membrane protein. Note=Inner acrosomal membrane of spermatozoa. Internalized upon binding of Measles virus, Herpesvirus 6 or Neisseria gonorrhoeae, which results in an increased susceptibility of infected cells to complement-mediated injury. In cancer cells or cells infected by Neisseria, shedding leads to a soluble peptide.
Tissue Location	Expressed by all cells except erythrocytes.
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

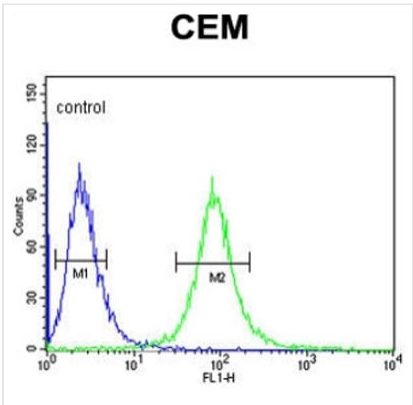
IMAGES



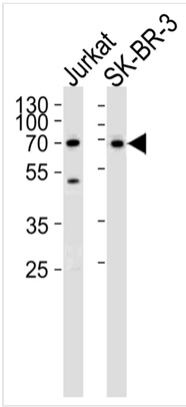
IF (Immunofluorescence)
Confocal immunofluorescent analysis of CD46 Antibody (C-term) (AAA283742) with Hela cell followed by Alexa Fluor 489-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



IHC (Immunohiostchemistry)
CD46 Antibody (C-term) (AAA283742) immunohistochemistry analysis in formalin fixed and paraffin embedded human hepatocarcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the CD46 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



FCM/FACS (Flow Cytometry)
CD46 Antibody (C-term) (AAA283742) flow cytometric analysis of CEM cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



WB (Western Blot)
Western blot analysis of lysates from Jurkat, SK-BR-3 cell line (from left to right), using CD46 Antibody (C-term) AAA283742. AAA283742 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L (HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.

ADDITIONAL INFORMATION

Related Product Information for anti-CD46 antibody	CD46 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. This gene is found in a cluster on chromosome 1q32 with other genes encoding structural components of the complement system.
Product Categories/Family for anti-CD46 antibody	Crown Antibodies; Immunology; Microbiology
References	Weyand, N.J., et al. J. Immunol. 184(2):694-701(2010) Santiago, C., et al. Acta Crystallogr. Sect. F Struct. Biol. Cryst. Commun. 66 (PT 1), 91-94 (2010) Sullivan, M., et al. Ann. Hum. Genet. 74(1):17-26(2010) Lee, S.W., et al. J. Cell Biol. 156(6):951-957(2002)

NCBI AND UNIPROT INFORMATION

NCBI GI #	27502402
NCBI GeneID	4179

NCBI Accession #	NP_002380.3; NP_722548.1; NP_758860.1; NP_758861.1; NP_758862.1; NP_758863.1; NP_758869.1; NP_758871.1
NCBI GenBank Nucleotide #	NM_002389.4
UniProt Accession #	P15529; Q15429; Q53GV9; Q5HY94; Q5VWS6; Q5VWS7; Q5VWS8; Q5VWS9; Q5VWT0; A0T1T0; A0T1T1; A0T1T2
Molecular Weight	43747
NCBI Official Full Name	membrane cofactor protein isoform 1
NCBI Official Synonym Full Names	CD46 molecule, complement regulatory protein
NCBI Official Symbol	CD46
NCBI Official Synonym Symbols	MCP; TLX; AHUS2; MIC10; TRA2.10
NCBI Protein Information	membrane cofactor protein
UniProt Protein Name	Membrane cofactor protein
UniProt Gene Name	CD46
UniProt Synonym Gene Names	MCP; MIC10
UniProt Entry Name	MCP_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.