

Mouse anti-Human CD46 Monoclonal Antibody | anti-CD46 antibody

CD46 antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48143	Mouse	Human	Immunohistochemistry, Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay, Western Blot, ELISA

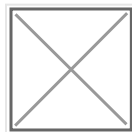
PRODUCT SYNONYMS

CD46; Monoclonal Antibody; CD46 antibody; Membrane cofactor protein isoform 14; AHuS2; MCP; MIC10; TLX; TRA2.10; anti-CD46 antibody

PRODUCT SPECIFICATIONS

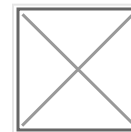
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a, k
Clone Number	AT2G9
Purity/Purification	By protein-A affinity chromatography
Form/Format	In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	349
Applicable Applications for anti-CD46 antibody	IHC (Immunohistochemistry), IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), WB (Western Blot), ELISA
Immunogen	Recombinant human CD46 (35-313aa) purified from E. coli
Preparation and Storage	For long term storage, aliquot and store at -20°C. Avoid repeated freezing and thawing cycles.

IMAGES



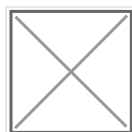
IHC (Immunohistochemistry)

Paraffin embedded sections of human colorectal cancer tissue were incubated with anti-human CD46 (1:100) for 2 hours at room temperature. Antigen retrieval was performed in 0.1M sodium citrate buffer and detected using Diaminobenzidine(DAB).



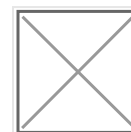
FCM/FACS (Flow Cytometry)

Flow cytometry analysis of CD46 in PBMC cells. The cell was stained with ATGA0326 at 2-5ug for 1x10⁶ cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).



IF (Immunofluorescence)

ICC/IF analysis of CD46 in HeLa cells. The cell was stained with AAA48143 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).



WB (Western Blot)

The cell lysates of Ramos, HeLa and A549 (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human CD46 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

ADDITIONAL INFORMATION

Related Product Information for anti-CD46 antibody	Membrane Cofactor Protein (CD46) is a type 1 membrane protein that plays an important inhibitory role in the complement system. CD46 regulates the complement cascade by inhibiting C3b and C4b deposited on self tissue. This protein is a cofactor that binds to C3b and C4b, allowing their degradation by a plasma serine protease called factor I. This function resides in the complement control protein repeats (CCPs), with CCP1-4 essential for regulation. CD46 is implicated in the development and/or progression of selected cancer types.
Product Categories/Family for anti-CD46 antibody	Immunology
References	Liszewski M.K., et al. (1991) Annu Rev Immunol 9: 431-455; Riley-Vargas R.C., et al. (2004) Trends Immunol 25 (9): 496-503; Studebaker A.W., et al. (2010) Neuro Oncol 12: 1034-1042

NCBI AND UNIPROT INFORMATION

NCBI GI #	27502405
NCBI GeneID	4179
NCBI Accession #	NP_758860
NCBI GenBank Nucleotide #	NM_172350.2
UniProt Accession #	P15529; Q15429; Q53GV9; Q5HY94; Q5VWS6; Q5VWS7; Q5VWS8; Q5VWS9; Q5VWT0; A0T1T0; A0T1T1; A0T1T2
NCBI Official Full Name	membrane cofactor protein isoform 14
NCBI Official Synonym Full Names	CD46 molecule
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

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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd46-antibody-clone-at2g9-immunohistochemistry-immunofluorescence-immunocytochemistry-flow-cytometry-western-blot-elisa/48143>