

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

CD46 (Extracellular region) Antibody

CATALOG # AAA71586	HOST Mouse	REACTIVITY Human	APPLICATIONS Immunoprecipitation, Immunocytochemistry, ELISA, Western Blot
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PRODUCT SYNONYMS

CD46; Monoclonal Antibody; CD46 (Extracellular region) Antibody; CD46 (Extracellular region); CD046 M037; anti-CD46 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	M037
Specificity	Clone M037 mouse monoclonal antibody detects a 45-60kDa* protein on SDS-PAGE "Native" immunoblots of human A549, MeWo, MDA-MB-231, and MCF7 cells, as well as human lung tissues. This antibody weakly detects denatured CD46. The antibody works for western blot, immunoprecipitation, ELISA capture, and immunocytochemistry.
Form/Format	Mouse monoclonal, protein G purified antibody is supplied in 100ul phosphate-buffered saline, 50% glycerol, 1mg/ml BSA, and 0.05% sodium azide.
Applicable Applications for anti-CD46 antibody	IP (Immunoprecipitation), ICC (Immunocytochemistry), ELISA, WB (Western Blot)
Immunogen	Clone (M037) was generated from a proprietary antigen related to native human CD46 expressed in NCI-H1915 lung cancer cell line.
Preparation and Storage	Store at -20 degree C. Stable for 1 year.

IMAGES



Standard Curve (Sample)

Representative Standard Curve using mouse monoclonal anti-CD46 (CM0371) for ELISA capture of human recombinant CD46 extracellular region with a His-tag. Captured protein was detected by suitable anti-His-tag antibody followed by appropriate secondary antibody HRP conjugate.



ICC (Immunocytochemistry)

Immunocytochemical labeling of CD46 in aldehyde fixed human NCIH1915 lung carcinoma cells. The cells were labeled with mouse monoclonal anti-CD46 (CM0371). The antibody was detected using goat anti-mouse Ig:DyLight 594.



WB (Western Blot)

Western blot of native lysates from NCI-H2052 mesothelial cells (lane 1), SK-MES-1 squamous carcinoma (lane 2), MDA-MB-231 breast carcinoma (lane 3), MeWo melanoma (lane 4), A431 skin adenocarcinoma (lane 5), LNCaP prostate cancer cells (lane 6), and MCF7 breast cancer cells (lane 7). The blot was probed with mouse monoclonal anti-CD46 (CM0371) at 1:1000.

ADDITIONAL INFORMATION

Related Product Information for anti-CD46 antibody	CD46 is a complement regulatory protein that is also called membrane cofactor protein. This protein is a type 1 membrane protein that plays an important inhibitory role in the complement system. CD46 exhibits a cofactor activity that promotes inactivation of C3b and C4b by serum factor 1, thereby protecting host cells from complement-dependent cytotoxicity. CD46 can also function as a receptor for selected bacteria and viruses, and is reportedly required for proper fusion of spermatozoa to the oocyte membrane during fertilization. CD46 is overexpressed in medulloblastoma tumors, and CD46 expression has been linked with poor prognosis in breast cancer. The upregulation of CD46 may protect cancer cells from complement-dependent cytotoxicity to facilitate cancer cell immune evasion.
References	Liszewski, M.K. et al. (1991) Annu Rev Immunol. 9:431. Yamamoto H et al. (2013) Int J Biochem Cell Bio 45(12):2808.

NCBI AND UNIPROT INFORMATION

NCBI GI #	41019474
NCBI GeneID	4179
UniProt Accession #	P15529; Q15429; Q53GV9; Q5HY94; Q5VWS6; Q5VWS7; Q5VWS8; Q5VWS9; Q5VWT0; A0T1T0; A0T1T1; A0T1T2
Molecular Weight	392
NCBI Official Full Name	Membrane cofactor protein
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; measles virus receptor; complement membrane cofactor protein; trophoblast leucocyte common antigen; trophoblast leukocyte common antigen; CD46 antigen, complement regulatory protein; trophoblast-lymphocyte cross-reactive antigen
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.