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PRODUCT DATASHEET

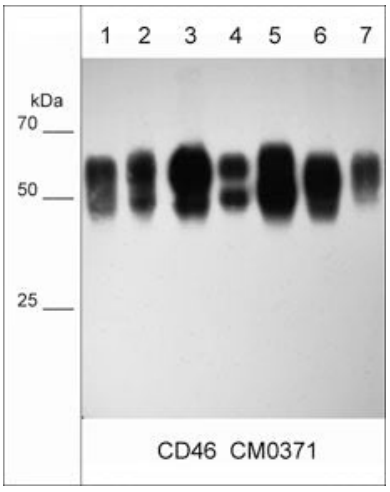
Anti-CD46 (Extracellular region) Antibody

Product Details

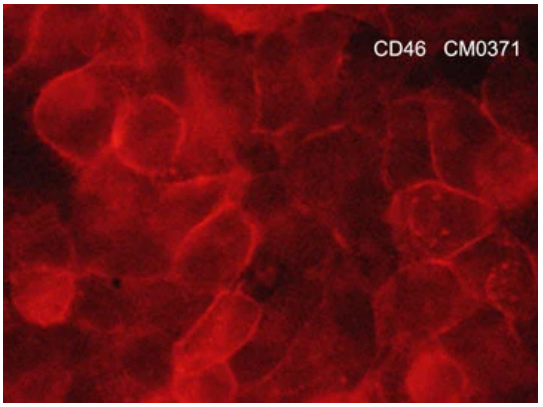
Available Variants	100 µL (SKU:CM0371)
Conjugate	Unconjugated
Isotype	IgG2b
Clone	M037
Gene Name	CD46
Host Species	Mouse
Format	Protein G Purified
Physical State	Liquid
Buffer	PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol
Applications	ELISA, ICC, IP, WB
Dilution Ranges	WB: 1:1000 ICC: 1:100 IP: 1:100
Species Reactivity	Human
Immunogen	Clone (M037) was generated from a proprietary antigen related to native human CD46 expressed in NCI-H1915 lung cancer cell line.
Specificity	Clone M037 mouse monoclonal antibody detects a 45-60 kDa* 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.
Molecular Weight	45-60
Quality Control	Western blots performed on each lot.

Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
UniProt ID	P15529 UniProt Summary: 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 immune responses by secreting interleukin-10, and therefore are thought to prevent autoimmunity.
Country of Origin	United States
Shipping	Blue Ice
Expiration	After date of receipt, stable for at least 1 year at -20°C.
Usage Statement	For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.
NCBI Gene ID	4179

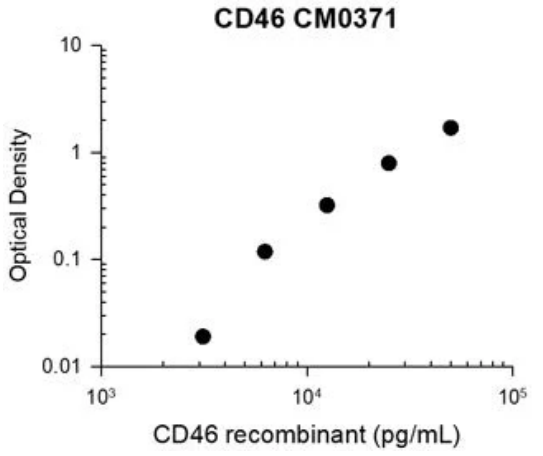
Product Images



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.



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.



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.