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Product datasheet for TA389083

CD46 Mouse Antibody [Clone ID: M037]

Product data:

Product Type:	Primary Antibodies
Clone Name:	M037
Applications:	ICC, IP, WB
Recommended Dilution:	**WB**: 1:1000 **ICC**: 1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
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.
Formulation:	PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol
Concentration:	lot specific
Purification:	Protein G Purified
Conjugation:	Unconjugated
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.
Stability:	After date of receipt, stable for at least 1 year at -20°C.
Predicted Protein Size:	45-60
Database Link:	P15529

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Background: 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.

Note: Protein G purified tissue culture supernatant.