e at -20C	CD46 (D6N7H) Rabbit mAb		Cell Signaling	
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Applications: WB, IHC-P	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 50-70	Source/Isotype: Rabbit IgG	UniProt ID: #P15529	Entrez-Gene Id: 4179	
Product Usage Information		Application Western Blotting Immunohistochemistry	(Paraffin)		1	Dilution .:1000 .:800	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sensitivity		CD46 (D6N7H) Rabbit mAb recognizes endogenous levels of total CD46 protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro199 of human CD46 protein.					
Background		Complement Regulatory Protein; Membrane Cofactor Protein (CD46) is a type 1 membrane protein that plays an important inhibitory role in the complement system (1). CD46 exhibits a cofactor activity that promotes inactivation of C3b and C4b by serum factor 1, thereby protecting host (self) cells from complement-dependent cytotoxicity (1,2). The importance of CD46 to complement regulation is underscored by the observation that genetic loss of CD46 leads to development of atypical hemolytic-uremic syndrome (aHUS), a disease characterized by uncontrolled complement activation (2,3). In addition to its role in complement inactivation, CD46 can function as a receptor for selected bacteria and viruses (4), and is reportedly required for proper fusion of spermatozoa to the oocyte membrane during fertilization (5). CD46 is implicated in the development and/or progression of selected cancer types. For example, research studies show elevated CD46 expression in medulloblastoma tumor samples (6), while CD46 expression has been linked with poor prognosis in breast cancer (7). It has been suggested that upregulation of CD46 may serve to protect cancer cells from complement-dependent cytotoxicity, thereby evading destruction by the immune system (8,9).					
Background Refe	2 3 4 5 6 7 8	Noris, M. and Remuzz Cattaneo, R. (2004) J Taylor, C.T. et al. (199 Studebaker, A.W. et a	al. (2004) Trend ti, G. (2009) N E Virol 78, 4385-8 4) Hum Reprod I. (2010) Neuro 2011) Appl Immu) FEBS Lett 587	s Immunol 25, 496-503. Engl J Med 361, 1676-87 3. 9, 907-11. Oncol 12, 1034-42. Inohistochem Mol Morph , 645-51.			
Species Reactivity		pecies reactivity is deter	rmined by testing	g in at least one approve	ed application (e.g., w	estern blot).	
Western Blot Buff		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					
Applications Key Cross-Reactivity Key Trademarks and Patents		VB: Western Blotting IH	C-P: Immunohis	stochemistry (Paraffin)			
		 H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected 					
				of Cell Signaling Techno Cell Signaling Technolog			

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