CD44 (156-3C11) Mouse mAb



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IP, IHC-P, IF-IC, FC-FP, FC-L	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 80	Source/Isotype: Mouse IgG2a	UniProt ID: #P16070	Entrez-Gene Id: 960	
Product Usage Information	Ap	plication		Dilution			
	We	Western Blotting				1:1000	
	Imi	munoprecipitation			1:5	0	
	Imi	Immunohistochemistry (Paraffin)				1:50	
	Im	Immunofluorescence (Immunocytochemistry)				1:200 - 1:800	
	Flo	w Cytometry (Fixed	/Permeabilized)	1:50 - 1:200			
	Flo	ow Cytometry (Live)			1:50 - 1:200		
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.					
	For	For a carrier-free (BSA and azide free) version of this product see product #77862					
Specificity / Sensitiv	ity CD4	CD44 (156-3C11) Mouse mAb detects endogenous levels of total CD44 protein.					
Source / Purification	•	Monoclonal antibody is produced by immunizing BALB/c mice with stimulated human leukocytes and recognizes residues surrounding Pro210 of human CD44					
Background	affir high tran and sho grov plas Acti	CD44 is a type I transmembrane glycoprotein that mediates cell-cell and cell-matrix interaction through its affinity for hyaluronic acid (HA) and possibly through other parts of the extracellular matrix (ECM). CD44 is highly polymorphic, possesses a number of alternative splice variants and undergoes extensive post-translational modifications (1,2). Increased surface levels of CD44 are characteristic of T cell activation, and expression of the protein is upregulated during the inflammatory response. Research studies have shown that interactions between CD44 and HER2 are linked to an increase in ovarian carcinoma cell growth (1-3). CD44 interacts with ezrin, radixin, and moesin (ERM), linking the actin cytoskeleton to the plasma membrane and the ECM (4-6). CD44 is constitutively phosphorylated at Ser325 in resting cells. Activation of PKC results in phosphorylation of Ser291, dephosphorylation of Ser325, disassociation of ezrin from CD44, and directional motility (4).					
Background Referer	2. C 3. B 4. L 5. Y	 Goodison, S. et al. (1999) Mol. Pathol. 52, 189-196. Cichy, J. and Puré, E. (2003) J. Cell Biol. 161, 839-843. Bourguignon, L.Y. et al. (1997) J. Biol. Chem. 272, 27913-27918. Legg, J.W. et al. (2002) Nat. Cell Biol. 4, 399-407. Yonemura, S. et al. (1998) J. Cell Biol. 140, 885-895. Tsukita, S. et al. (1994) J. Cell Biol. 126, 391-401. 					

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

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

WB: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin)

IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)

FC-L: Flow Cytometry (Live)

Cross-Reactivity Key

CD44 (156-3C11) Mouse mAb (#3570) Datasheet Without Images Cell Signaling Technology

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

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