

CD44 (156-3C11) Mouse mAb



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Applications: W, 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		Application			Dilution	
		Western Blotting				000
		Immunoprecipitation			1:5	
		Immunohistochemist	• •	:	1:5	
		Immunofluorescence (Immunocytochemistry) Flow Cytometry (Fixed/Permeabilized)			1:200 - 1:800 1:50 - 1:200	
		Flow Cytometry (Live)				0 - 1:200 0 - 1:200
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
		For a carrier-free (BSA and azide free) version of this product see product #77862				
Specificity/Sen	sitivitv	CD44 (156-3C11) Mou	ıse mAb detects end	logenous 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		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 References		1. Goodison, S. et al. (1999) <i>Mol. Pathol.</i> 52, 189-196. 2. Cichy, J. and Puré, E. (2003) <i>J. Cell Biol.</i> 161, 839-843. 3. Bourguignon, L.Y. et al. (1997) <i>J. Biol. Chem.</i> 272, 27913-27918. 4. Legg, J.W. et al. (2002) <i>Nat. Cell Biol.</i> 4, 399-407. 5. Yonemura, S. et al. (1998) <i>J. Cell Biol.</i> 140, 885-895. 6. Tsukita, S. et al. (1994) <i>J. Cell Biol.</i> 126, 391-401.				
Species Reactiv	/ity	Species reactivity is d	ed 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.				
Annlications V	274	W: Wastern Platting	D. Immunoprocipita	ation IUC Pr Immunohist	tachamistry (Daraff	in) IE IC:

Applications Key

W: 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

H: Human

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