## CD44 (8E2) Mouse mAb



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Applications: W, IP, IF-IC, FC-FP	<b>Reactivity:</b> H R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 80	Source/Isotype: Mouse IgG1	<b>UniProt ID:</b> #P16070	Entrez-Gene Id: 960	
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation Immunofluorescence (Immunocytochemistry) Flow Cytometry (Fixed/Permeabilized)		-	<b>Dilution</b> 1:1000 1:50 1:400 - 1:1600 1:400 - 1:1600		
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.					
Specificity/Sens	sitivity	CD44 (8E2) Mouse mAb detects endogenous levels of total CD44 protein.					
Source / Purific	ation	Monoclonal antibody is produced by immunizing BALB/c mice with a purified recombinant protein fragment corresponding to residues surrounding Leu664 of human CD44 protein.					
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 Re	ferences	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	ʻity	Species reactivity is de	etermined by testing	g in at least one approve	d application (e.g., v	western blot).	
Western Blot B	uffer	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 Ke	ey.	<b>W:</b> Western Blotting <b>IP:</b> Immunoprecipitation <b>IF-IC:</b> Immunofluorescence (Immunocytochemistry) <b>FC-FP:</b> Flow Cytometry (Fixed/Permeabilized)					
Cross-Reactivit	у Кеу	H: Human R: Rat					
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