#4041 Store at -20C

CD44 (156-3C11) Mouse mAb (Biotinylated) Orders: 877-616-CELL (2355) orders@cellsignal.com Support: 877-678-TECH (8324)

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

Applications: WB	Reactivity H	: Sensitivity: Endogenous	MW (kDa): 80	Source/Isotype: Mouse IgG2a	UniProt ID: #P16070	Entrez-Gene Id: 960
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at –20°C. Do not aliquot the antibodies.				
Specificity / Sensitivity		CD44 (156-3C11) Mouse mAb (Biotinylated) 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 Ser210 of human CD44				
Product Description		This Cell Signaling Technology antibody is conjugated to biotin under optimal conditions. The biotinylated antibody exhibits the same species cross-reactivity as the unconjugated CD44 (156-3C11) Mouse mAb #3570.				
MW (kDa)					80	
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		 Goodison, S. et al. (1999) <i>Mol. Pathol.</i> 52, 189-196. Cichy, J. and Puré, E. (2003) <i>J. Cell Biol.</i> 161, 839-843. Bourguignon, L.Y. et al. (1997) <i>J. Biol. Chem.</i> 272, 27913-27918. Legg, J.W. et al. (2002) <i>Nat. Cell Biol.</i> 4, 399-407. Yonemura, S. et al. (1998) <i>J. Cell Biol.</i> 140, 885-895. Tsukita, S. et al. (1994) <i>J. Cell Biol.</i> 126, 391-401. 				
Species Reactivity		Species reactivity is determined by testing in at least one approved application (e.g., western blot).				
		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				
		 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 				
Patents		Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.				

CD44 (156-3C11) Mouse mAb (Biotinylated) (#4041) Datasheet Without Images Cell Signaling Technology

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