CD44 (156-3C11) Mouse mAb (Alexa Fluor[®] 488 Conjugate)



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9195 # For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: IF-IC, FC-FP	Reactivity: H	Sensitivity: Endogenous	Source/Isotype: Mouse IgG2a	UniProt ID: #P16070	Entrez-Gene Id: 960		
Product Usage Information		Application Immunofluorescence (Immunocytochemistry) Flow Cytometry (Fixed/Permeabilized)		Dilution 1:50 1:50			
Storage		Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.					
Specificity/Sensi	tivity	CD44 (156-3C11) Mouse mAb (Alexa Fluor $^{\textcircled{8}}$ 488 Conjugate) detects endogenous levels of total CD44 protein.					
Source / Purifica	tion	Monoclonal antibody is produced by immunizing BALB/c mice with stimulated human leukocytes. The antibody was conjugated to Alexa Fluor [®] 488 under optimal conditions with an F/P ratio of 2-5.					
Description		This Cell Signaling Technology antibody is conjugated to Alexa Fluor [®] 488 fluorescent dye and tested in-house for direct flow cytometry and immunofluorescent analysis in human cells.					
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 Ref	erences	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 Reactivi	ty	Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Applications Key	,	IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)					
Cross-Reactivity	Кеу	H: Human					
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