

CD44 (E7K2Y) XP® Rabbit mAb



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Applications: W, IHC-Bond, IHC-P	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 80	Source/Isotype: Rabbit IgG	UniProt ID: #P16070	Entrez-Gene Id: 960	
Product Usage Information		Application Western Blotting IHC Leica Bond			Dilution 1:1000 1:150 - 1:600		
		Immunohistochemistry (Paraffin)			1:75 - 1:300		
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. <i>Do not aliquot the antibody.</i>					
		For a carrier free (BSA and azide free) version of this product see product #96848.					
Specificity/Sensitivity		CD44 (E7K2Y) XP [®] Rabbit mAb recognizes endogenous levels of total CD44 protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro136 of human CD44 protein. This sequence region is conserved in all isoforms of CD44 reported in Uniprot, with the exception of isoform 2 and isoform 19.					
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	2. Cichy, J. and Puré, E 3. Bourguignon, L.Y. e 4. Legg, J.W. et al. (20 5. Yonemura, S. et al.	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. Isukita, S. et al. (1994) <i>J. Cell Biol.</i> 126, 391-401.				
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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 BSA, 1X

TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting IHC-Bond: IHC Leica Bond IHC-P: Immunohistochemistry (Paraffin)

Cross-Reactivity Key

H: Human M: Mouse R: Rat

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