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## **CD44 Antibody**



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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

Applications: F WB	Reactivity: H	Sensitivity: Endogenous	<b>MW (kDa):</b> 80	Source: Rabbit	UniProt ID: #P16070	Entrez-Gene Id: 960	
Product Usage Information	Ар	plication			Dilution		
	We	stern Blotting		1:1000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity / Sensitivi	ity CD4	CD44 Antibody detects endogenous levels of total CD44 protein.					
Source / Purification	,	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide surrounding Leu135 of human CD44. Antibodies are purified by peptide affinity chromatography.					
Background	affin high tran: and show grow plas Activ	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 Referen		1. Goodison, S. et al. (1999) <i>Mol. Pathol.</i> 52, 189-196.					

2. Cichy, J. and Puré, E. (2003) J. Cell Biol. 161, 839-843.

3. Bourguignon, L.Y. et al. (1997) J. Biol. Chem. 272, 27913-27918.

4. Legg, J.W. et al. (2002) Nat. Cell Biol. 4, 399-407. 5. Yonemura, S. et al. (1998) J. Cell Biol. 140, 885-895.

6. Tsukita, S. et al. (1994) J. Cell Biol. 126, 391-401.

Species reactivity is determined by testing in at least one approved application (e.g., western blot). **Species Reactivity** 

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, Western Blot Buffer

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

**Applications Key WB:** Western Blotting

**Cross-Reactivity Key** 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

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