SRC-3 (D1F11) Rabbit mAb





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Applications: W, IP, IF-IC	Reactivity: H M Mk	Sensitivity: Endogenous	MW (kDa): 160	Source/Isotype: Rabbit	UniProt ID: #Q9Y6Q9	Entrez-Gene Id: 8202	
Product Usage Information	2	Application Western Blotting Immunoprecipitation Immunofluorescence		iistry)		Dilution 1:1000 1:50 1:600	
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/Sensitivity		SRC-3 (D1F11) Rabbit mAb recognizes endogenous levels of total SRC-3 protein.					
Source / Purifi	cation	Monoclonal antibody residues near the am		nunizing animals with a s nan SRC-3 protein.	synthetic peptide co	orresponding to	
Background		There are three members of the steroid receptor co-activator (SRC) family of proteins: SRC-1 (NCoA-1), SRC-2 (TIF2/GRIP1/NCoA-2), and SRC-3 (ACTR/pCIP/RAC3/TRAM-1/AIB1). All SRC family members share significant structural homology and function to stimulate transcription mediated by nuclear hormone receptors and other transcriptional activators such as Stat3, NF-kB, E2F1, and p53 (1-4). Two SRC proteins, SRC-1 and SRC-3, function as histone acetyltransferases (5,6). In addition, all three family members can recruit other histone acetyltransferases (CBP/p300, PCAF) and histone methyltransferases (PRMT1, CARM1) to target promoters and cooperate to enhance expression of many genes (5-8). The SRC proteins play important roles in multiple physiological processes including cell proliferation, cell survival, somatic cell growth, mammary gland development, female reproductive function, and vasoprotection (9). SRC-1 and SRC-3 are conduits for kinase-mediated growth factor signaling to the estrogen receptor and other transcriptional activators. Seven SRC-1 phosphorylation sites and six SRC-3 phosphorylation sites have been identified, which are induced by steroids, cytokines, and growth factors and involve multiple kinase signaling pathways (9-11). Research has shown that all three SRC family members are associated with increased activity of nuclear receptors in breast, prostate, and ovarian carcinomas. According to the literature, SRC-3 is frequently amplified or overexpressed in a number of cancers (12), and SRC-1/PAX3 and SRC-2/MYST3 translocations are found associated with rhabdomyosarcoma and acute myeloid leukemia, respectively (13,14).					
Background R	eferences	 Giraud, S. et al. (200 Na, S.Y. et al. (1998) Louie, M.C. et al. (204 Lee, S.K. et al. (1999) Spencer, T.E. et al. (1999) Spencer, T.E. et al. (1997) Koh, S.S. et al. (2000) Chen, D. et al. (1999) Wu, R.C. et al. (2004) Rowan, B.G. et al. (2004) Rowan, B.G. et al. (2004) Torres-Arzayus, M Wachtel, M. et al. (1004) Deguchi, K. et al. (2004) 	J. Biol. Chem. 273, 204) <i>Mol. Cell Biol. 2</i> 209) <i>Mol. Endocrinol.</i> 1997) <i>Nature</i> 389, 1 7) <i>Cell</i> 90, 569-580. 1) <i>J. Biol. Chem.</i> 276 2) <i>Science</i> 284, 2174 4) <i>Mol. Cell</i> 15, 937-9 (2000) <i>J. Biol. Chem</i> 205) <i>Cancer Res.</i> 65 .I. et al. (2004) <i>Cance</i> (2004) <i>Cancer Res.</i> 65	10831-10834. 24, 5157-5171. 13, 1924-1933. 94-198. , 1089-1098. I-2177. 949. . 275, 4475-4483. , 7976-7983. <i>cer Cell</i> 6, 263-274. 54, 5539-5545.			
Species Reacti	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot E	Buffer	IMPORTANT: For west TBS, 0.1% Tween® 20		membrane with diluted shaking, overnight.	primary antibody ii	n 5% w/v BSA, 1X	
Applications K	ey	W: Western Blotting I	P: Immunoprecipita	ation IF-IC: Immunofluo	rescence (Immunoc	cytochemistry)	

Cross-Reactivity Key	H: Human M: Mouse Mk: Monkey	
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