SRC-3 (11B1) Mouse mAb



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Applications: W, IF-IC, FC-FP	Reactivity:	Sensitivity: Endogenous	MW (kDa): 160	Source/Isotype: Mouse IgG1	UniProt ID: #Q9Y6Q9	Entrez-Gene Id: 8202
Product Usage Information		Application Western Blotting Immunofluorescence Flow Cytometry (Fixed		istry)		Dilution 1:1000 1:100 1:200
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. Do not aliquot the antibody.				
Specificity/Sensitivity		SRC-3 (11B1) Mouse mAb detects endogenous levels of total SRC-3 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant human SRC-3 polypeptide fragment (a.a. 1-250).				
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 References		 Giraud, S. et al. (2002) J. Biol. Chem. 277, 8004-8011. Na, S.Y. et al. (1998) J. Biol. Chem. 273, 10831-10834. Louie, M.C. et al. (2004) Mol. Cell Biol. 24, 5157-5171. Lee, S.K. et al. (1999) Mol. Endocrinol. 13, 1924-1933. Spencer, T.E. et al. (1997) Nature 389, 194-198. Chen, H. et al. (1997) Cell 90, 569-580. Koh, S.S. et al. (2001) J. Biol. Chem. 276, 1089-1098. Chen, D. et al. (1999) Science 284, 2174-2177. Wu, R.C. et al. (2004) Mol. Cell 15, 937-949. Rowan, B.G. et al. (2000) J. Biol. Chem. 275, 4475-4483. Zhou, H.J. et al. (2005) Cancer Res. 65, 7976-7983. Torres-Arzayus, M.I. et al. (2004) Cancer Cell 6, 263-274. Wachtel, M. et al. (2004) Cancer Res. 64, 5539-5545. Deguchi, K. et al. (2003) Cancer Cell 3, 259-271. 				

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4° C with gentle shaking, overnight.

Applications Key W: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry

(Fixed/Permeabilized)

Cross-Reactivity Key H: Human

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