#5765 Store at -20C

SRC-3 (D1F11) Rabbit mAb



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Applications: WB, 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	Ар	Application				Dilution	
	We	Western Blotting				1:1000	
	Imr	Immunoprecipitation				1:50	
	Imr	Immunofluorescence (Immunocytochemistry)				1:600	
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 / Sensiti	vity SRC	SRC-3 (D1F11) Rabbit mAb recognizes endogenous levels of total SRC-3 protein.					
Source / Purificatio		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human SRC-3 protein.					

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

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- 7. Koh, S.S. et al. (2001) J. Biol. Chem. 276, 1089-1098.
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- 9. Wu, R.C. et al. (2004) Mol. Cell 15, 937-949.
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- 11. Zhou, H.J. et al. (2005) Cancer Res. 65, 7976-7983.
- 12. Torres-Arzayus, M.I. et al. (2004) Cancer Cell 6, 263-274.
- 13. Wachtel, M. et al. (2004) Cancer Res. 64, 5539-5545.
- 14. 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

SRC-3 (D1F11) Rabbit mAb (#5765) Datasheet Without Images Cell Signaling Technology 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 Cross-Reactivity Key

WB: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)

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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