126 Store at -20C

SRC-3 (5E11) Rabbit mAb



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Applications: WB, IP, ChIP, ChIP-seq	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 160	Source/Isotype: Rabbit IgG	UniProt ID: #Q9Y6Q9	Entrez-Gene Id: 8202	
Product Usage Information	For optimal ChIP and ChIP-seq results, use 10 μ l of antibody and 10 μ g of chromatin (approximately 4 x 10 ⁶ cells) per IP. This antibody has been validated using SimpleChIP [®] Enzymatic Chromatin IP Kits.						
	Application			Dilution			
	We	Western Blotting			1:1000		
	Imr	Immunoprecipitation			1:50		
	Chi	Chromatin IP			1:50		
	Chi	Chromatin IP-seq			1:50		
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		SRC-3 (5E11) Rabbit mAb detects endogenous levels of total SRC-3 protein (all isoforms). The antibody does not cross-react with other SRC proteins, including SRC-1 and SRC-2.					
Source / Purificatio	••	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the sequence of human SRC-3 protein.					

Background

SRC-3 (5E11) Rabbit mAb (#2126) Datasheet Without Images Cell Signaling Technology

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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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 Cross-Reactivity Key

WB: Western Blotting IP: Immunoprecipitation ChIP: Chromatin IP ChIP-seq: Chromatin IP-seq

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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