•	28E7) Rab	bit mAb				ell Signaling снысьоду»	
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or Research Use Only	/. Not for Use in	Diagnostic Proce	edures.				
Applications: WB, IP, IHC-P, ChIP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 180	Source/Isotype: Rabbit IgG	UniProt ID: #Q15788	Entrez-Gene Id: 8648	
Product Usage Information	For This	optimal ChIP results antibody has been	s, use 5 µl of antil validated using S	body and 10 µg of chror SimpleChIP [®] Enzymatic	natin (approximatel Chromatin IP Kits.	y 4 x 10 ⁶ cells) per IP.	
	Ар	plication				Dilution	
	We	estern Blotting				1:1000	
	Im	munoprecipitation				1:100	
	Im	nunohistochemistry	(Paraffin)			1:200	
	Ch	romatin IP				1:100	
Storage				7.5), 150 mM NaCl, 100 not aliquot the antibody		ycerol and less than	
Specificity / Sensitivity		SRC-1 (128E7) Rabbit mAb detects endogenous levels of total SRC-1 protein (all three isoforms). The antibody does not cross-react with other SRC proteins, including SRC-2 and SRC-3.					
Source / Purificat		noclonal antibody is	. ,	nunizing animals with a s	synthetic peptide co	prresponding to the	

sequence of human SRC-1 protein.

/24, 11:43 AM	SRC-1 (128E7) Rabbit mAb (#2191) Datasheet Without Images Cell Signaling Technology				
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 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 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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key	WB: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) ChIP: Chromatin IP				
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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