STF-1 (D1Z2A) XP [®] Rabbit mAb	SE .	Cell Signaling TECHNOLOGY®
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Applications: W, IP, IF-IC, ChIP, ChIP-seq	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 50	Source/Isotype: Rabbit IgG	UniProt ID: #Q13285	Entrez-Gene Id: 2516
Product Usage Information		For optimal ChIP and 10 ⁶ cells) per IP. This a	ChIP-seq results, us antibody has been v	se 10 μl of antibody and validated using SimpleCh	10 μg of chromatin nIP [®] Enzymatic Chro	(approximately 4 x omatin IP Kits.
		Application Western Blotting Immunoprecipitation Immunofluorescence Chromatin IP Chromatin IP-seq	(Immunocytochen	nistry)		Dilution 1:1000 1:100 1:100 1:50 1:50
Storage		Supplied in 10 mM so 0.02% sodium azide. S	dium HEPES (pH 7.! Store at –20°C. Do r	5), 150 mM NaCl, 100 µg. lot aliquot the antibody.	/ml BSA, 50% glycer	rol and less than
Specificity/Sen	sitivity	STF-1 (D1Z2A) XP [®] Ral not cross-react with Ll	bbit mAb recognize RH-1/NR5A2.	s endogenous levels of t	otal STF-1 protein.	This antibody does
Species predict based on 100% homology	ed to react sequence	Bovine				
Source / Purific	ation	Monoclonal antibody residues surrounding	is produced by imn Leu184 of human :	nunizing animals with a s STF-1 protein.	synthetic peptide co	orresponding to
Background	The orphan nuclear receptor, steroidogenic factor 1 (STF-1, also called Ad4BP), is encoded by the <i>NR5A1</i> gene and plays an instrumental role in directing the transcriptional control of steroidogenesis (1). Initially identified as a tissue-specific transcriptional regulator of cytochrome P450 steroid hydroxylases, research studies of both global (2) and tissue-specific knockout mice (3-6) have demonstrated that STF-1 is required for the development of adrenal glands, gonads, ventromedial hypothalamus, and for the proper functioning of pituitary gonadotropes. Indeed, humans with mutations that render <i>STF-1</i> transcriptionally inactive can present with testicular failure, ovarian failure, and adrenal insufficiency (7,8). Furthermore, dysregulation of STF-1 has been linked to diseases such as endometriosis (9) and adrenocortical carcinoma (10).					
		Like other nuclear hor terminal zinc finger D domain, and a hinger box, which functions a Ser203, which is thoug transcriptional cofacto conjugation and acety represses STF-1 functi	rmone receptors, S NA-binding domair region with AF-1-lik as an accessory DN ght to enhance its t ors (12). In addition γlation at ε-amino g on (13,14), acetylat	TF-1 has a modular dom n, a ligand-binding doma e activation activity. STF- A binding domain (11). S ranscriptional activity by to phosphorylation at S roups of target lysine re ion enhances its transcr	ain structure comp in, a carboxy-termi 1 also contains a fu TF-1 is primarily ph promoting comple er203, STF-1 is subj sidues. Whereas SL iptional activity (15)	osed of an amino- nal AF-2 activation shi tarazu factor 1 osphorylated at ex formation with ect to SUMO JMOylation
Background Re	ferences	1. Parker, K.L. and Sch 2. Luo, X. et al. (1994) 3. Zhao, L. et al. (2001 4. Jeyasuria, P. et al. (2 5. Pelusi, C. et al. (2008 6. Zhao, L. et al. (2008 7. Achermann, J.C. et a 8. Lourenço, D. et al. (2 9. Bulun, S.E. et al. (20 10. Figueiredo, B.C. et 11. Little, T.H. et al. (20	immer, B.P. (1997) <i>I</i> <i>Cell</i> 77, 481-90.) <i>Development</i> 128 004) <i>Mol Endocrino</i> 8) <i>Biol Reprod</i> 79, 1) <i>Mol Endocrino</i> 22 al. (1999) <i>Nat Gene</i> 2009) <i>N Engl J Med</i> 09) <i>Mol Cell Endoc</i> al. (2005) <i>J Clin End</i> 006) <i>Mol Endocrino</i>	Endocr Rev 18, 361-77. , 147-54. of 18, 1610-9. 074-83. 2, 1403-15. t 22, 125-6. 360, 1200-10. rinol 300, 104-8. docrinol Metab 90, 615-9 d 20, 831-43.		

	12. Hammer, G.D. et al. (1999) <i>Mol Cell</i> 3, 521-6. 13. Chen, W.Y. et al. (2004) <i>J Biol Chem</i> 279, 38730-5. 14. Lee, F.Y. et al. (2011) <i>Dev Cell</i> 21, 315-27. 15. Chen, W.Y. et al. (2005) <i>Mol Cell Biol</i> 25, 10442-53.
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 IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry) ChIP: Chromatin IP ChIP-seq: Chromatin IP-seq
Cross-Reactivity Key	H: Human M: Mouse
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