STF-1 Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 50	Source/Isotype: Rabbit	UniProt ID: #Q13285	Entrez-Gene Id: 2516
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		STF-1 Antibody recognizes endogenous levels of total STF-1 protein. This antibody does not cross-react with LRH-1/NR5A2.				
Species predicted to react based on 100% sequence homology		Monkey, Bovine, Pig, F	Horse			
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu184 of human STF-1 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
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).				
		terminal zinc finger DI domain, and a hinge r box, which functions a Ser203, which is thoug transcriptional cofacto conjugation and acety	NA-binding domain egion with AF-1-like is an accessory DNA ght to enhance its toors (12). In addition at ε-amino gu	F-1 has a modular dom , a ligand-binding doma : activation activity. STF- A binding domain (11). S ranscriptional activity by to phosphorylation at S roups of target lysine re on enhances its transcr	iin, a carboxy-termi 1 also contains a fu TF-1 is primarily ph promoting comple er203, STF-1 is subj sidues. Whereas SL	nal AF-2 activation shi tarazu factor 1 osphorylated at ex formation with ect to SUMO IMOylation
Background References		2. Luo, X. et al. (1994) 3. Zhao, L. et al. (2001) 4. Jeyasuria, P. et al. (2 5. Pelusi, C. et al. (2008) 7. Achermann, J.C. et a 8. Lourenço, D. et al. (20 10. Figueiredo, B.C. et 11. Little, T.H. et al. (20 12. Hammer, G.D. et al 13. Chen, W.Y. et al. (20 14. Lee, F.Y. et al. (201	r, K.L. and Schimmer, B.P. (1997) Endocr Rev 18, 361-77. K. et al. (1994) Cell 77, 481-90. L. et al. (2001) Development 128, 147-54. Lria, P. et al. (2004) Mol Endocrinol 18, 1610-9. i, C. et al. (2008) Biol Reprod 79, 1074-83. L. et al. (2008) Mol Endocrinol 22, 1403-15. mann, J.C. et al. (1999) Nat Genet 22, 125-6. nço, D. et al. (2009) N Engl J Med 360, 1200-10. i, S.E. et al. (2009) Mol Cell Endocrinol 300, 104-8. eiredo, B.C. et al. (2005) J Clin Endocrinol Metab 90, 615-9. e, T.H. et al. (2006) Mol Endocrinol 20, 831-43. imer, G.D. et al. (1999) Mol Cell 3, 521-6. n, W.Y. et al. (2004) J Biol Chem 279, 38730-5. F.Y. et al. (2011) Dev Cell 21, 315-27. n, W.Y. et al. (2005) Mol Cell Biol 25, 10442-53.			

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

Cross-Reactivity Key H: Human M: Mouse

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