

12025

FoxK1 Antibody



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

Applications: W, IP	Reactivity: H M Mk	Sensitivity: Endogenous	MW (kDa): 97	Source/Isotype: Rabbit	UniProt ID: #P85037	Entrez-Gene Id: 221937
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50	
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		FoxK1 Antibody recognizes endogenous levels of total FoxK1 protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg692 of mouse FoxK1 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Forkhead box (Fox) proteins are a family of evolutionarily conserved transcription factors defined by the presence of a winged helix DNA-binding domain called a Forkhead box (1). In humans, there are over 40 known Fox protein family members, divided into 19 subfamilies, which have evolved to regulate gene transcription in diverse and highly specialized biological contexts throughout development (2). Mutations that disrupt the expression of Fox gene family members have consequently been implicated in a broad array of human disorders, including immunological dysfunction, infertility, speech/language disorders, and cancer (3,4).				
		repressor of downstreatwo isoforms of FoxK1: the α isoform. The two regeneration. FoxK1-β dominant isoform in p	am target genes, i : FoxK1-α and FoxK · isoforms of FoxK' is expressed main roliferating myobl ration and differer	eins along with FoxK2. Fincluding FoxO4, Mef2, p (1- $β$. The $β$ isoform has a show reciprocal expresily in quiescent satellite casts from activated satel tiation of myogenic sten	21, PPGB, and ACTA a truncated C termi sion patterns durin cells (8), whereas Fo lite cells (9). Both is	12 (5-7). There are nus compared to g muscle xK1-α is the oforms of FoxK1
Background References		1. Myatt, S.S. and Lam, E.W. (2007) <i>Nat Rev Cancer</i> 7, 847-59. 2. Jackson, B.C. et al. (2010) <i>Hum Genomics</i> 4, 345-52. 3. Hannenhalli, S. and Kaestner, K.H. (2009) <i>Nat Rev Genet</i> 10, 233-40. 4. Benayoun, B.A. et al. (2011) <i>Trends Genet</i> 10, 224-32. 5. Hawke, T.J. et al. (2003) <i>J Biol Chem</i> 278, 4015-20. 6. Freddie, C.T. et al. (2007) <i>Nucleic Acids Res</i> 35, 5203-12. 7. Shi, X. et al. (2012) <i>J Cell Sci</i> 125, 5329-37. 8. Garry, D.J. et al. (1997) <i>Dev Biol</i> 188, 280-94. 9. Yang, Q. et al. (1997) <i>Mol Cell Biol</i> 17, 5236-43. 10. Garry, D.J. et al. (2000) <i>Proc Natl Acad Sci USA</i> 97, 5416-21.				

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 W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key H: Human M: Mouse Mk: Monkey

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