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FKBP5 Antibody



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H M Mk	Endogenous	51	Rabbit	#Q13451	2289

Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	FKBP5 Antibody recognizes endogenous levels of total FKBP5 protein. This antibody does not cross-react with FKBP4 protein.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human FKBP5 protein. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	FK506 binding protein 51 (FKBP51, also called FKBP5) belongs to the FKBP family of immunophilins (1). FKBP family proteins contain FK domains and TPR (tetratricopeptide repeat) domains. The FK domains are responsible for PPlase (peptidylprolyl isomerase) activity and allow binding to FK506 and rapamycin (2,3). The C terminal TPR domains are involved in protein-protein interactions. The TPR domain of FKBP5 mediates binding to HSP90 complexes (4), as well as glucocorticoid, androgen, and progesterone receptors, which account for its regulatory role in steroid hormone receptor function (5). FKBP5 also binds to IKKα and is involved in NF-κB signaling (6,7). In addition, FKBP5 was identified as a negative regulator of Akt, through promotion of Akt - PHLPP interaction and enhanced dephosphorylation of Akt (8).	
Background References	<ol style="list-style-type: none"> 1. Avilés, A. et al. (1995) <i>Clin Oncol (R Coll Radiol)</i> 7, 97-101. 2. Fruman, D.A. et al. (1994) <i>FASEB J</i> 8, 391-400. 3. Fix, M.L. et al. (2008) <i>Blood Press Monit</i> 13, 199-203. 4. Scheufler, C. et al. (2000) <i>Cell</i> 101, 199-210. 5. Schülke, J.P. et al. (2010) <i>PLoS One</i> 5, e11717. 6. Bouwmeester, T. et al. (2004) <i>Nat Cell Biol</i> 6, 97-105. 7. Avellino, R. et al. (2005) <i>Blood</i> 106, 1400-6. 8. Pei, H. et al. (2009) <i>Cancer Cell</i> 16, 259-66. 	

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
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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