## #12210 store at -20C

## FKBP5 (D5G2) Rabbit mAb



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Applications: WB, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 51	Source/Isotype: Rabbit IgG	UniProt ID: #Q13451	Entrez-Gene ld: 2289	
Product Usage Information	Αţ	Application			Dilution		
	We	estern Blotting		1:1000			
	Im	munoprecipitation		1:50			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at $-20^{\circ}$ C. Do not aliquot the antibody.					
Specificity / Sensitivity		FKBP5 (D5G2) Rabbit mAb recognizes endogenous levels of total FKBP5 protein. This antibody does not cross-react with FKBP4 protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg222 of human FKBP5 protein.					
Background	FKI are (2,3 me rec to I	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) acitivity 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 Refer	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 nonfat dry

milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key** 

WB: Western Blotting IP: Immunoprecipitation

**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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