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e at -20C	(BP4 Antibody		Cell Signaling		
Store at -		Orders:	877-616-CELL (2355) orders@cellsignal.com		
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#		3 Trask Lane Danvers Ma	assachusetts 01923 USA		

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

Applications: WB	Reactivity: H M R Hm Mk	Sensitivity: Endogenous	MW (kDa): 56	Source: Rabbit	UniProt ID: #Q02790	Entrez-Gene Id: 2288		
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 / Sens		FKBP4 Antibody recognizes endogenous levels of total FKBP4 protein. This antibody does not cross-react with other FKBP proteins.						
Source / Purificat	resid	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Met440 of human FKBP4 protein. Antibodies are purified by protein A and peptide affinity chromatography.						
Background	demo immu signa cis-tr seco horm comp of an recep demo level: micro	FKBP4 (also known as FKBP52) is a member of the immunophilin protein family. FKBP4 does not demonstrate appreciable immunosuppressant activity typical of this family, despite its ability to bind the immunosuppressants FK506 and rapamycin (1,2). While FKBP4 plays an important role in immunoregulatory gene expression in B and T lymphocytes, its role in regulating steroid hormone receptor signaling and cytoskeletal dynamics is garnering significant interest. FKBP4 contains two peptidyl-prolyl cis-trans isomerase (PPIase) domains, the first of which is implicated in steroid receptor signaling while the second interacts with tubulin and other cytoskeletal components. The maturation of cytoplasmic steroid hormone receptors into a functional conformation requires multiple chaperone and co-chaperone components, including HSP90, p23, and FKBP4 (3,4). FKBP4 interacts with HSP90 to facilitate the folding of androgen, glucocorticoid, and progesterone steroid hormone receptors. Indeed, the functionality of these receptors is impaired in the absence of FKBP4, and research studies have found that null mice demonstrate signs of androgen insensitivity syndrome (5). In addition, FKBP4, which is expressed at high levels in the brain, interacts with hyperphosphorylated Tau and antagonizes Tau's ability to promote microtubule polymerization (6). FKBP4 can also suppress amyloid β toxicity in Drosophila by processing APP (Alzheimer's Amyloid Precursor Protein) to unfold aggregates (7).						
Background Refe	2. Wi 3. De 4. Eb 5. Siv 6. Ch	u, B. et al. (2004) <i>F</i> Leon, J.T. et al. (2 iong, I.O. et al. (20 <i>i</i> lls, J.C. et al. (201 iambraud, B. et al.	Proc Natl Acad Sci (2011) Proc Natl Aca 11) Proc Natl Acad 1) Curr Opin Pharm (2010) Proc Natl A	Icad Sci U S A 89, 10974-8. ci U S A 101, 8348-53. Acad Sci U S A 108, 11878-83. iad Sci U S A 108, 17939-44. armacol 11, 314-9. Il Acad Sci U S A 107, 2658-63. PLoS One 5, e8626.				
Species Reactivit	ty Speci	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot Buf	ifer IMPO 0.1%	RTANT: For weste Tween® 20 at 4°C	rn blots, incubate m with gentle shaking	ate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, aking, overnight.				
Applications Key	WB:	WB: Western Blotting						
Cross-Reactivity	X: Xe	 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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Limited Uses

FKBP4 Antibody (#11826) Datasheet Without Images Cell Signaling Technology

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