

## **FXR2 Antibody**



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

Applications: W	Reactivity: H Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 95	Source/Isotype: Rabbit	<b>UniProt ID:</b> #P51116	Entrez-Gene Id: 9513
Product Usage Information		<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		FXR2 Antibody detects endogenous levels of total FXR2 protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the sequence of human FXR2 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Fragile X syndrome is a genetic disorder characterized by a spectrum of physical and behavioral features and is a frequent form of inherited mental retardation (1). X-linked FMRP (FMR-1) and its two autosomal homologs, FXR1 and FXR2, are polyribosome-associated RNA-binding proteins that are involved in the pathogenesis of fragile X syndrome (1-3). Each of the fragile X proteins can self-associate, as well as form heteromers with the other two related proteins (3). FMRP can act as a translation regulator and is a component of RNAi effector complexes (RISC), suggesting a role in gene silencing (4). The <i>Drosophila</i> homolog of FMRP (dFMRP) associates with Argonaute 2 (Ago2) and Dicer and can coimmunoprecipitate with miRNA and siRNA (5). These results suggest that fragile X syndrome is related to abnormal translation caused by defects in RNAi-related pathways. In addition, FMRP, FXR1, and FXR2 are components of stress granules (SG) and have been implicated in the translational regulation of mRNAs (6).				
Background Ro	eferences	<ol> <li>Verkerk, A.J. et al. (1991) Cell 65, 905-14.</li> <li>Siomi, M.C. et al. (1995) EMBO J 14, 2401-8.</li> <li>Zhang, Y. et al. (1995) EMBO J 14, 5358-66.</li> <li>Caudy, A.A. et al. (2002) Genes Dev 16, 2491-6.</li> <li>Siomi, H. et al. (2004) Ment Retard Dev Disabil Res Rev 10, 68-74.</li> <li>Linder, B. et al. (2008) Hum Mol Genet 17, 3236-46.</li> </ol>				
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

Cross-Reactivity Key

W: Western Blotting
H: Human Mk: Monkey

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