FXR1 (L662) Antibody



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Applications: W	Reactivity: M	Sensitivity: Endogenous	MW (kDa): 78-80, 82-84	Source/Isotype: Rabbit	UniProt ID: #P51114	Entrez-Gene Id: 8087
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/Sensitivity		FXR1 (L662) Antibody detects endogenous levels of total FXR1 protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the sequence of mouse FXR1 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 References		 Verkerk, A.J. et al. (1991) Cell 65, 905-14. Siomi, M.C. et al. (1995) EMBO J 14, 2401-8. Zhang, Y. et al. (1995) EMBO J 14, 5358-66. Caudy, A.A. et al. (2002) Genes Dev 16, 2491-6. Siomi, H. et al. (2004) Ment Retard Dev Disabil Res Rev 10, 68-74. Linder, B. et al. (2008) Hum Mol Genet 17, 3236-46. 				

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

Cross-Reactivity Key M: Mouse

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