Store at -200

FMRP (G468) Antibody



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Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 80	Source: Rabbit	UniProt ID: #Q06787	Entrez-Gene Id: 2332	
Product Usage	Ap	plication			Dilution		
Information	We	stern Blotting			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		FMRP (G468) Antibody detects endogenous levels of total FMRP protein.					
Source / Purification	sequ	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the sequence around Gly468 of human FMRP protein. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	CGC FMF role anot RNA with sugg path	Fragile X syndrome, a frequent cause of inherited mental retardation, often results from expansion of the CGG trinucleotide repeat in the gene that encodes the fragile X mental retardation protein (FMRP) (1). FMRP (also known as FMR1) and its two autosomal homologs (FXR1 and FXR2) all bind RNA and play a role in the pathogenesis of fragile X syndrome (1-3). Each of these related proteins can associate with one another as well as form homodimers (3). FMRP can act as a translation regulator and is a component of RNAi effector complexes (RISC), suggesting a role in gene silencing (4). In <i>Drosophila</i> , dFMRP associates with Argonaute 2 (Ago2) and Dicer and coimmunoprecipitates with miRNA and siRNA. These results suggest that fragile X syndrome is related to abnormal translation caused by a defect in RNAi-related pathways (5). In addition, FMRP, FXR1, and FXR2 are components of stress granules (SG) and have been implicated in the translational regulation of mRNAs (6).					
Background Refer	1. Verkerk, A.J. et al. (1991) <i>Cell</i> 65, 905-14. 2. Siomi, M.C. et al. (1995) <i>EMBO J</i> 14, 2401-8. 3. Zhang, Y. et al. (1995) <i>EMBO J</i> 14, 5358-66.						

- 4. Caudy, A.A. et al. (2002) Genes Dev 16, 2491-6.
- 5. Siomi, H. et al. (2004) Ment Retard Dev Disabil Res Rev 10, 68-74.
- 6. Linder, B. et al. (2008) Hum Mol Genet 17, 3236-46.

Species reactivity is determined by testing in at least one approved application (e.g., western blot). **Species Reactivity**

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.

WB: Western Blotting **Applications Key**

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key**

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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