

FMRP Polyclonal Antibody | anti-FMRP antibody

Synaptic functional regulator FMR1

CATALOG # AAA46239	REACTIVITY Human, Mouse, Rat	APPLICATIONS Western Blot
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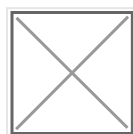
PRODUCT SYNONYMS

FMRP; Polyclonal Antibody; Synaptic functional regulator FMR1; anti-FMRP antibody

PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized
Sequence Length	537
Applicable Applications for anti-FMRP antibody	WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human FMRP (164-200aa ENYQLVILSINEVTSKRAHMLIDMHFRSLRTKLSLIM), different from the related mouse and rat sequences by one amino acid.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
content	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



WB (Western Blot)

Anti- FMRP Picoband antibody, Western blottingAll lanes: Anti FMRP at 0.5ug/mlLane 1: Rat Testis Tissue Lysate at 50ugLane 2: Mouse Testis Tissue Lysate at 50ugLane 3: HELA Whole Cell Lysate at 40ugLane 4: HEPG2 Whole Cell Lysate at 40ugPredicted bind size: 71KDObserved bind size: 71KD

ADDITIONAL INFORMATION

Related Product Information for anti-FMRP antibody	Background: FMR1 (fragile X mental retardation 1) is a human gene that codes for a protein called fragile X mentalretardation protein, or FMRP. This protein, most commonly found in the brain, is essential for normal cognitive development and female reproductive function. Mutations of this gene can lead to fragile X syndrome, mental retardation, premature ovarian failure, autism, Parkinson's disease, developmental delays and other cognitive deficits. The protein encoded by this gene binds RNA and is associated with polysomes. Additionally, the encoded protein may be involved in mRNA trafficking from the nucleus to the cytoplasm. A trinucleotide repeat (CGG) in the 5' UTR is normally found at 6-53 copies, but an expansion to 55-230 repeats is the cause of fragile X syndrome. Expansion of the trinucleotide repeat may also cause one form of premature ovarian failure (POF1). Multiple alternatively spliced transcript variants that encode different protein isoforms and which are located in different cellular locations have been described for this gene.
References	1. Verkerk AJ, Pieretti M, Sutcliffe JS, Fu YH, Kuhl DP, Pizzuti A, Reiner O, Richards S, Victoria MF, Zhang FP (May 1991). "Identification of a gene (FMR-1) containing a CGG repeat coincident with a breakpoint cluster region exhibiting length variation in fragile X syndrome". Cell 65(5): 905-14. 2. Verheij C, Bakker CE, de Graaff E, Keulemans J, Willemsen R, Verkerk AJ, Galjaard H, Reuser AJ, Hoogeveen AT, Oostra BA (June 1993). "Characterization and localization of the FMR-1 gene product associated with fragile X syndrome". Nature 363 (6431): 722-4.

NCBI AND UNIPROT INFORMATION

NCBI GI #	297374777
NCBI GeneID	2332
NCBI Accession #	NP_001172004.1
NCBI GenBank Nucleotide #	NM_001185075.1
UniProt Accession #	Q06787; Q16578; Q5PQZ6; Q99054; A6NNH4; D3DWT0; D3DWT1; D3DWT2; G8JL90
NCBI Official Full Name	fragile X mental retardation protein 1 isoform ISO6
NCBI Official Synonym Full Names	fragile X mental retardation 1
NCBI Official Symbol	FMR1
NCBI Official Synonym Symbols	POF; FMRP; POF1; FRAXA
NCBI Protein Information	fragile X mental retardation protein 1
UniProt Protein Name	Fragile X mental retardation protein 1
UniProt Gene Name	FMR1
UniProt Synonym Gene Names	FMRP; Protein FMR-1
UniProt Entry Name	FMR1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/fmrp-antibody-western-blot-elisa/46239>