

Rabbit FMRP (Ser499) Polyclonal Antibody | anti-FMR1 antibody

Anti-Phospho-Ser499 FMRP (Fragile X Mental Retardation Protein)

CATALOG # AAA72819	HOST Rabbit	APPLICATIONS Dot Blot, Immunohistochemistry, Western Blot
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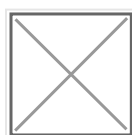
PRODUCT SYNONYMS

FMRP (Ser499); Polyclonal Antibody; Anti-Phospho-Ser499 FMRP (Fragile X Mental Retardation Protein); anti-FMR1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Clonality	Polyclonal
Specificity	Specific for ~71k FMRP protein phosphorylated at Ser ⁴⁹⁹ . Immunolabeling of the FMRP protein is completely eliminated by lambda-phosphatase.
Purity/Purification	Affinity Purified
Form/Format	100 ul in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 ug per ml BSA and 50% glycerol. Adequate amount of material to conduct 10-mini Western Blots
Applicable Applications for anti-FMR1 antibody	DB (Dot Blot), IHC (Immunohistochemistry), WB (Western Blot)
Preparation and Storage	For long term storage -80°C is recommended, but shorter term storage at -20°C is also acceptable as aliquots may be taken without freeze/thawing due to the presence of 50% glycerol. Stock solutions are stable for a minimum of 1 year at -20°C.

IMAGES



Application Data

ADDITIONAL INFORMATION

Related Product Information for anti-FMR1 antibody	Affinity purified rabbit polyclonal antibody Fragile X Mental Retardation Protein (FMRP) is an RNA-binding protein that plays an essential role in cognitive brain function. Mutations in the FMR1 gene, which codes for FMRP, can result in fragile X syndrome, autism, as well as other cognitive deficits (Brown et al., 1998, Goodlin-Jones et al., 2004). Phosphorylation of the highly conserved Ser499 has been shown to trigger hierarchical phosphorylation of nearby serines and may play a role in suppressing target mRNA translation (Ceman et al., 2003, Narayanan et al. 2008).
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References	• Bernard PB, Castano AM, O'Leary H, Simpson K, Browning MD, Benke TA. (2013) Phosphorylation of FMRP and alterations of FMRP complex underlie enhanced mLTD in adult rats triggered by early life seizures. <i>Neurobiol Dis.</i> Nov; 59:1-17. • Brown V, Small K, Lakkis L, Feng Y, Gunter C, Wilkinson KD, Warren ST (1998) Purified recombinant Fmrp exhibits selective RNA binding as an intrinsic property of the fragile X mental retardation protein. <i>J Biol Chem</i> 273:15521-15527 • Ceman S, O'Donnell WT, Reed M, Patton S, Pohl J, Warren ST. (2003) Phosphorylation influences the translation state of FMRP-associated polyribosomes. <i>Hum Mol Genet.</i> Dec 15;12(24):3295-305 • Goodlin-Jones BL, Tassone F, Gane LW, Hagerman RJ. (2004) Autistic spectrum disorder and the fragile X premutation. <i>J Dev Behav Pediatr.</i> Dec;25(6):392-8 • Narayanan U, Nalavadi V, Nakamoto M, Thomas G, Ceman S, Bassell GJ, Warren ST. (2008) S6K1 phosphorylates and regulates fragile X mental retardation protein (FMRP) with the neuronal protein synthesis-dependent mammalian target of rapamycin (mTOR) signaling cascade. <i>J Biol Chem</i> 283:18478-18482
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NCBI AND UNIPROT INFORMATION

NCBI GI #	30794228
NCBI GeneID	24948
NCBI Accession #	NP_434691.1
NCBI GenBank Nucleotide #	NM_052804.1
UniProt Accession #	Q80WE1 ; P70568
NCBI Official Full Name	fragile X mental retardation protein 1 homolog
NCBI Official Synonym Full Names	fragile X mental retardation 1
NCBI Official Symbol	Fmr1
NCBI Official Synonym Symbols	FMRP
NCBI Protein Information	fragile X mental retardation protein 1 homolog; protein FMR-1; fragile X mental retardation-1 protein; fragile X mental retardation syndrome 1 homolog
UniProt Protein Name	Fragile X mental retardation protein 1 homolog
UniProt Gene Name	Fmr1
UniProt Synonym Gene Names	FMRP
UniProt Entry Name	FMR1_RAT

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-ser499-antibody-dot-blot-immunohistochemistry-western-blot-elisa/72819>