

ARG64933 anti-FMRP antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes FMRP
Tested Reactivity	Hu
Predict Reactivity	Rat
Tested Application	IHC-P, WB
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	FMRP
Species	Human
Immunogen	C-NPNKPATKDTFHKIK
Conjugation	Un-conjugated
Alternate Names	POF1; Fragile X mental retardation protein 1; FRAXA; Protein FMR-1; POF; FMRP

Application Instructions

Application table	Application	Dilution
	IHC-P	2.5 µg/ml
	WB	0.3 - 1 µg/ml
Application Note	WB: Recommend incubate at RT for 1h. IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

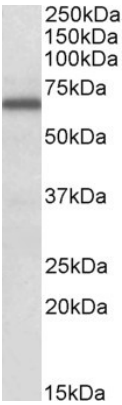
Properties

Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Bioinformation

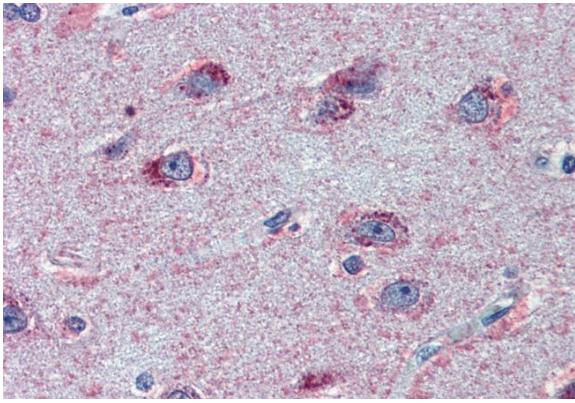
Database links	GeneID: 2332 Human Swiss-port # Q06787 Human
Background	The protein encoded by this gene binds RNA and is associated with polysomes. The encoded protein may be involved in mRNA trafficking from the nucleus to the cytoplasm. A trinucleotide repeat (CGG) in the 5' UTR is normally found at 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. [provided by RefSeq, May 2010]
Research Area	Gene Regulation antibody; Neuroscience antibody
Calculated Mw	71 kDa
PTM	Phosphorylated (PubMed:14532325). Phosphorylated on several serine residues. Phosphorylation at Ser-500 is required for phosphorylation of other nearby serine residues. Phosphorylation has no effect on the binding of individual mRNA species, but may affect the association with polyribosome. Unphosphorylated FMR1 is associated with actively translating polyribosome, whereas a fraction of phosphorylated FMR1 is associated with apparently stalled polyribosome. Dephosphorylation by an activated phosphatase may release the FMR1-mediated translational repression and allow synthesis of a locally required protein at snypases (By similarity). Monoubiquitinated. Polyubiquitinated. Ubiquitinated and targeted for proteasomal degradation after activation of metabotropic glutamate receptor (mGluR). Methylated; methylation is necessary for heterodimerization with FXR1, association with polyribosomes, recruitment into stress granules and translation of FMR1 target mRNAs (PubMed:16636078). Methylated by PRMT1, PRMT3 and PRMT4, in vitro (PubMed:16922515). Isoform 10: Undergoes proteolytic cleavage; may be specifically cleaved by calpain-1/CAPN1 in cajal bodies (PubMed:24204304).

Images



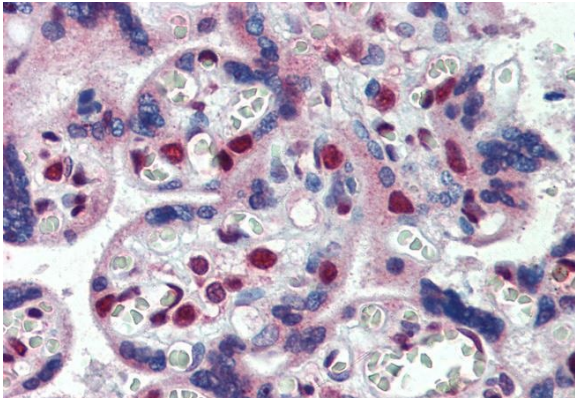
ARG64933 anti-FMRP antibody WB image

Western blot: 35 µg of Kelly lysate stained with ARG64933 anti-FMRP antibody at 0.3 µg/ml dilution.



ARG64933 anti-FMRP antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human cortex tissue.
Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG64933 anti-FMRP antibody at 2.5 µg/ml dilution followed by AP-staining.



ARG64933 anti-FMRP antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human placenta tissue.
Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG64933 anti-FMRP antibody at 2.5 µg/ml dilution followed by AP-staining.