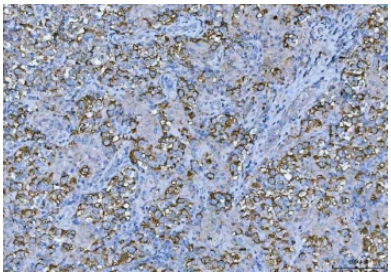
FMRP Antibody / FMR1 (R32195)

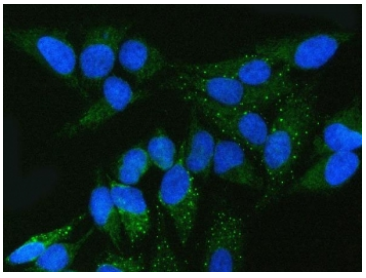
Catalog No.	Formulation	Size
R32195	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

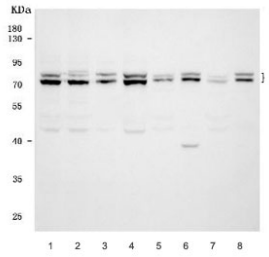
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	Q06787
Applications	Western Blot : 0.1-0.5ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Immunofluorescence : 5ug/ml
Limitations	This FMRP antibody is available for research use only.



IHC staining of FFPE human testicular seminoma tissue with FMRP antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Immunofluorescent staining of FFPE human HeLa cells with FMRP antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of 1) human HeLa, 2) human 293T, 3) human Jurkat, 4) human K562, 5) rat brain, 6) rat liver, 7) mouse brain and 8) mouse liver lysate with FMRP antibody. Predicted molecular weight ~71 kDa with multiple isoforms observed at 67-90 kDa.

Description

FMR1 (fragile X mental retardation 1) is a human gene that codes for a protein called fragile X mental retardation protein, or FMRP. This protein, most commonly found in the brain, is essential for normalcognitive developmentand 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.

Application Notes

Optimal dilution of the FMRP antibody should be determined by the researcher.

Immunogen

Amino acids ENYQLVILSINEVTSKRAHMLIDMHFRSLRTKLSLIM of human FMRP were used as the immunogen for the FMRP antibody.

Storage

After reconstitution, the FMRP antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com