Data Sheet (Cat.No.TMAC-01524)

Anti-FMR1 Antibody (9X925)

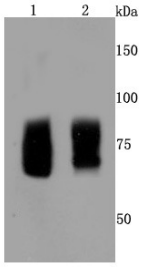
Product Details

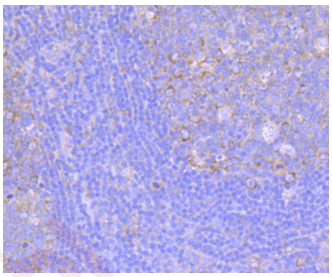
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 71 kDa.
Clone:	9X925
Purification:	ProA affinity purified

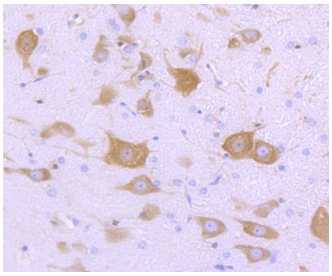
Applications

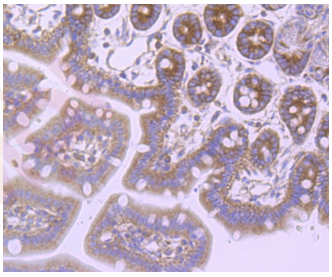
Verified Activity:

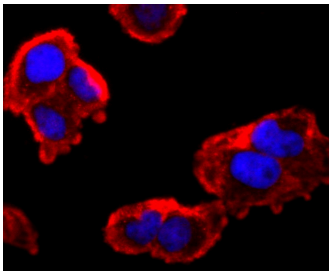
1. Western blot analysis of FMRP on different cells lysates using anti-FMRP antibody at 1/500 dilution. Positive control: Lane 1: Hela, Lane 2: K562.
2. Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-FMRP antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-FMRP antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded mouse colon tissue using anti-FMRP antibody. Counter stained with hematoxylin.
5. ICC staining FMRP in Hela cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
6. ICC staining FMRP in HepG2 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
7. ICC staining FMRP in SH-SY5Y cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

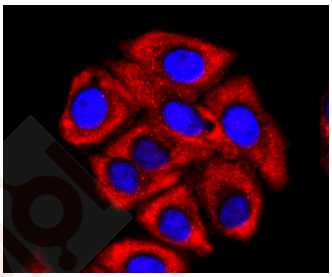


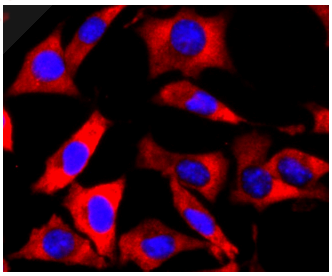












Application:	ICC/IF,IHC,WB
Recommended	WB: 1:5000-10000; IHC: 1:50-200; ICC/IF: 1:100-500

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein
Uniprot ID:	Q06787
Synonyms:	MGC87458;Protein FMR1;FMRP;POF1;Fragile X mental retardation 1 protein;Fmr1;Fragile X mental retardation protein 1;wu:fb16f11;FMR 1;Fragile X mental retardation 1;fragile X mental retardation, autosomal homolog 1;Protein FMR-1;FMR1_HUMAN;FRAXA;fragile X mental retardation syndrome-related protein 1;zgc:66226;fxr1;Fragile X mental retardation protein; Fmr1 gene;POF;wu:fd18c10

Research Background

Fragile X syndrome is the most frequent form of inherited mental retardation and is the result of transcriptional silencing of the FMR1 gene on the X chromosome. The FMR1 gene contains a distinct CpG dinucleotide repeat located in the 5' untranslated region of the gene. In fragile X syndrome this tandem repeat is substantially amplified and subjected to extensive methylation and enhanced transcriptional silencing. The FMR1 protein (or FMRP) is an RNA-binding protein that associates with polyribosomes and is a likely component of a messenger ribonuclear protein (mRNP) particle. It contains several features that are characteristics of RNA-binding proteins, including two hnRNPK homology (KH) domains and an RGG amino acid motif (RGG box). FMR1 localizes to both the nucleus and the cytoplasm and can also interact with two fragile X syndrome related factors, FXR1 and FXR2, which form heterodimers through their N-terminal coiled-coil domains. Since FMR1 contains both a nuclear localization signal and a nuclear export signal it is also implicated in the nucleocytoplasmic transport of mRNAs.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481