



## FMR1 Mouse Monoclonal Antibody

E10-20327

**Background:** FMR1, also known as POF, FMRP, FRAXA. Entrez Protein. NP\_002015. It is an RNA-binding protein that associates with polyribosomes and is a likely component of a messenger ribonuclear protein (mRNP) particle. The 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 (POF). RNA-binding protein that plays a role in intracellular RNA transport and in the regulation of translation of target mRNAs.

**Catalog Number:** E10-20327

**Amount:** 100µg/100µl

**Clone Number:** 4G9

**Species:** Mouse IgG1

**MW:** 71kDa

**Aliases:** POF; FMRP; POF1; FRAXA

**Entrez Gene:** 2332

**Immunogen:** Purified recombinant fragment of human FMR1 expressed in E. Coli.

**Storage:** Store at 4 °C for long term storage, store at 20 °C for short term storage.

**Formulation:** Ascitic fluid containing 0.03% sodium azide.

**Species Reactivities:** Human

**Tested Applications:** WB, IHC, IF, ELISA. Not yet tested in other applications. Determining optimal working dilutions by titration test.

**Application notes:** WB: 1/500 - 1/2000. IHC: 1/200 - 1/1000. IF: 1/200 - 1/1000. ELISA. Propose dilution 1/10000.

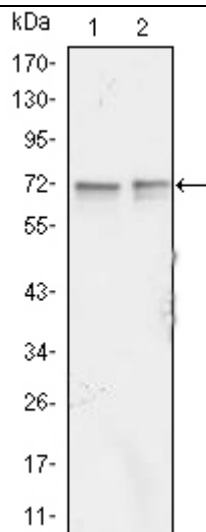


Figure 1. Western blot analysis using FMR1 mouse mAb against Jurkat (1) and K562 (2) cell lysate.

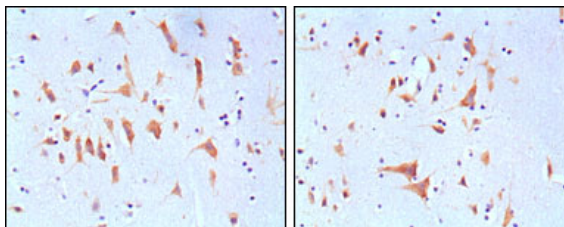


Figure 2. Immunohistochemical analysis of paraffin-embedded human brain tissues, showing cytoplasmic localization with DAB staining using FMR1 mouse mAb.

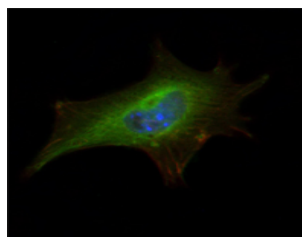


Figure 3. Immunofluorescence analysis of NIH/3T3 cells using FMR1 mouse mAb (green). Blue. DRAQ5 fluorescent DNA dye. Red. Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

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