

FMR1 (5A4) Rabbit Monoclonal Antibody

Catalog# HZ-YMA01032

Product information

产品货号	HZ-YMA01032
别名	FMR1;Fragile X mental retardation protein 1;FMRP;Protein FMR-1
产品名称	FMR1 (5A4) Rabbit Monoclonal Antibody
类别	抗体产品
基因名称	FMR1
推荐应用	WB,IHC-P,IF-P,IF-F,IF-ICC,ELISA
反应种属	Human,Mouse,Rat
存储缓冲液	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Human Gene ID	2332
Human Swissprot No.	Q06787
稀释度	IHC-P 1:200-1:1000, WB 1:2000-1:10000, IF-P/IF-F/IF-ICC 1:200-1:1000, ELISA 1:5000-1:20000
参考分子量	70-77kDa
预测分子量	71kDa
运输及保存条件	Biological ice bag transportation. Store at -20°C for at least 12 months(Do not lower than -25°C). Avoid freeze/thaw cycles
宿主	Rabbit
同种型	IgG,Kappa
背景介绍	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],

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Product information

细胞定位

Nucleus . Nucleus, nucleolus . Chromosome, centromere . Chromosome . Cytoplasm . Cytoplasm, perinuclear region . Cytoplasm, Cytoplasmic ribonucleoprotein granule . Perikaryon . Cell projection, neuron projection . Cell projection, axon . Cell projection, dendrite . Cell projection, dendritic spine . Cell junction, synapse, synaptosome . Cell projection, growth cone . Cell projection, filopodium tip . Cell junction, synapse . Cell junction, synapse, postsynaptic cell membrane . Cell junction, synapse, presynaptic cell membrane . Cell membrane . Cytoplasm, Stress granule . Colocalizes with H2AX/H2A.x in pericentromeric heterochromatin in response to DNA damaging agents (By similarity). Localizes on meiotic pachytene-stage chromosomes (By similarity). Forms nuclear foci representing sites of ongoing DNA replication in response to DNA damaging agents (By similarity). Shuttles between nucleus and cytoplasm in a XPO1/CRM1-dependent manner (PubMed:10196376). Localizes to cytoplasmic ribonucleoprotein granules, also referred to as messenger ribonucleoprotein particles or mRNPs, along dendrites and dendritic spines (PubMed:9659908, PubMed:14532325). FMR1-containing cytoplasmic granules colocalize to F-actin-rich structures, including filopodium, spines and growth cone during the development of hippocampal neurons (By similarity). FMR1-containing cytoplasmic granules are transported out of the soma along axon and dendrite to synaptic contacts in a microtubule- and kinesin-dependent manner (PubMed:12417734, PubMed:15380484). Colocalizes with CACNA1B in the cytoplasm and at the cell membrane of neurons (By similarity). Colocalizes with CYFIP1, CYFIP2, NXF2 and ribosomes in the perinuclear region (By similarity). Colocalizes with CYFIP1 and EIF4E in dendrites and probably at synapses (By similarity). Colocalizes with FXR1, kinesin, 60S acidic ribosomal protein RPLP0 and SMN in cytoplasmic granules in the soma and neurite cell processes (PubMed:12417734, PubMed:18093976, PubMed:16636078). Colocalizes with FXR1 and FXR2 in discrete granules, called fragile X granules (FXGs), along axon and presynaptic compartments (By similarity). Colocalizes with TDRD3 in cytoplasmic stress granules (SGs) in response to various cellular stress (PubMed:18632687, PubMed:18664458, PubMed:16636078). .; [Isoform 6]: Cytoplasm . Cytoplasm, perinuclear region .; [Isoform 9]: Cytoplasm .; [Isoform 10]: Nucleus . Nucleus, Cajal body . Colocalizes with Colin and SMN in Cajal bodies (PubMed:24204304).; [Isoform 11]: Nucleus . Nucleus, Cajal body .

纯化

Protein A

Clonality

Monoclonal