Fmr1 Peptide - C-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	Fmr1, Blocking Peptide
Full Product Name	Fmr1 Peptide - C-terminal region
Product Gene Name	Fmr1 blocking peptide
Product Synonym Gene Name	FMRP; Fmr1
Sequence	QIGASSRPPP NRTDKEKGYV TDDGQGMGRG SRPYRNRGHG RRGPGYTSES
Species Reactivity	Rat
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	Fmr1 peptide (MBS3230150) is used for blocking the activity of Fmr1 antibody (MBS3205185)
Molecular Weight	67kDa
Product Categories/Family for Fmr1 blocking peptide	Peptide
Applications Tested/Suitable for Fmr1 blocking peptide	Western Blot (WB)
Related Product Information for Fmr1 blocking peptide	This is a synthetic peptide designed for use in combination with anti-Fmr1 Antibody, made Target Description: Fmr1 is a translation repressor. Fmr1 is a component of the CYFIP1-EIF4E-FMR1 complex which binds to the mRNA cap and mediates translational repression. In the CYFIP1-EIF4E-FMR1 complex this subunit mediates translation repression. RNA-binding protein that plays a role in intracellular RNA transport and in the regulation of translation of target mRNAs.Fmr1 is associated with polysomes. Fmr1 is involved in the transport of mRNA from the nucleus to the cytoplasm. Fmr1 binds strongly to poly(G), binds moderately to poly(U) but shows very little binding to poly(A) or poly(C).
Other Notes	Small volumes of Fmr1 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Fmr1 purchase	MBS3230150 is a blocking peptide targeting Fmr1. Also known as Fmr1 Peptide - C-terminal region. Reactive in Rat.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Fmr1. It may not necessarily be applicable to this product.

NCBI GI #	30794228
NCBI GeneID	24948
NCBI Accession #	NP_434691
UniProt Primary Accession #	Q80WE1
UniProt Related Accession #	Q80WE1
GenBank Nucleotide #	NM_052804

NCBI Official Full Name	synaptic functional regulator FMR1
NCBI Official Synonym Full Names	fragile X mental retardation 1
NCBI Official Symbol	Fmr1
NCBI Official Synonym Symbols	FMRP
UniProt Protein Name	Fragile X mental retardation protein 1 homolog
Protein Family	Mat- sexual cell fertilization-promoting factor
UniProt Gene Name	Fmr1
UniProt Synonym Gene Names	FMRP
UniProt Entry Name	FMR1_RAT
NCBI Protein Information	synaptic functional regulator FMR1
NCBI Summary for Fmr1	may play a role in mRNA trafficking and localization [RGD, Feb 2006]
UniProt Comments for Fmr1	Function: Translation repressor. Component of the CYFIP1-EIF4E-FMR1 complex which binds to the mRNA cap and mediates translational repression. In the CYFIP1-EIF4E-FMR1 complex this subunit mediates translation repression. RNA-binding protein that plays a role in intracellular RNA transport and in the regulation of translation of target mRNAs. Associated with polysomes. Involved in the transport of mRNA from the nucleus to the cytoplasm. Binds strongly to poly(G), binds moderately to poly(U) but shows very little binding to poly(A) or poly(C) By similarity. Subunit structure: Homooligomer. Found in a RNP granule complex with IGF2BP1. Directly interacts with SMN and TDRD3. Interacts with the SMN core complex that contains SMN1, GEMIN2/SIP1, DDX20/GEMIN3, GEMIN4, GEMIN5, GEMIN6, GEMIN7, GEMIN8 and STRAP/UNRIP. Interacts with FXR1, FXR2, IGF2BP1, NUFIP1, NUFIP2, MCRS1 and RANBP9. Component of the CYFIP1-EIF4E-FMR1 complex which is composed of CYFIP, EIF4E and FMR1. Interacts with CYFIP1 and CYFIP2. The interaction with brain cytoplasmic RNA 1 (BC1) increases binding affinity for the CYFIP1-EIF4E complex in the brain By similarity. Subcellular location: Cytoplasm By similarity. Nucleus › nucleolus By similarity. Domain: The tandem Tudor domains preferentially recognize trimethylated histone peptides By similarity. Post-translational modification: Phosphorylated on several serine residues By similarity. Miscellaneous: RNA-binding activity is inhibited by RANBP9 By similarity. Sequence similarities: Belongs to the FMR1 family.Contains 2 Agenet-like domains.Contains 2 KH domains. Sequence caution: The sequence AAB07073.1 differs from that shown. Reason: N-ter sequencing errors.
Research Articles on Fmr1	**1.** Suggest that FMRP is associated with the activation of oogenesis and oocyte function. Expression of FMRP varies with age.

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