MBNL2 Antibody (C-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	MBNL2, Blocking Peptide
Full Product Name	MBNL2 Antibody (C-term) Blocking peptide
Product Gene Name	MBNL2 blocking peptide
Product Synonym Gene Name	MBLL; MBLL39; MLP1
Product Synonym Names	Muscleblind-like protein 2; Muscleblind-like protein 1; Muscleblind-like protein-like; Muscleblind-like protein-like 39; MBNL2; MBLL; MBLL39; MLP1
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	MBNL2 peptide (MBS9219592) is used for blocking the activity of MBNL2 antibody (MBS9209489)
Molecular Weight	39,356 Da
OMIM	607327
Cellular Location	Nucleus. Cytoplasm. Note: Greater concentration in the nucleus. Expressed in or near large cytoplasmic adhesion plaques. Location in the cytoplasm is microtubule-dependent. In both DM1 and DM2 patients, colocalizes with nuclear foci of retained expanded-repeat transcripts
Tissue Location	Expressed in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas
Related Product Information for MBNL2 blocking peptide	Mediates pre-mRNA alternative splicing regulation. Acts either as activator or repressor of splicing on specific pre-mRNA targets. Inhibits cardiac troponin-T (TNNT2) pre-mRNA exon inclusion but induces insulin receptor (IR) pre-mRNA exon inclusion in muscle. Antagonizes the alternative splicing activity pattern of CELF proteins. RNA-binding protein that binds to 5'ACACCC-3' core sequence, termed zipcode, within the 3'UTR of ITGA3. Binds to CUG triplet repeat expansion in myotonic dystrophy muscle cells by sequestering the target RNAs. Seems to regulate expression and localization of ITGA3 by transporting it from the nucleus to cytoplasm at adhesion plaques. May play a role in myotonic dystrophy pathophysiology (DM).
Other Notes	Small volumes of MBNL2 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 MBNL2 purchase	MBS9219592 is a blocking peptide targeting MBNL2. Also known as MBNL2 Antibody (C-term) Blocking peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MBNL2. It may not necessarily be applicable to this product.

NCBI GI #	125952110
NCBI GeneID	10150
NCBI Accession #	Q5VZF2.2
UniProt Primary Accession #	Q5VZF2
UniProt Secondary Accession #	Q3SXY5; Q58F19; Q8NEV3; Q8TD82
UniProt Related Accession #	Q5VZF2
NCBI Official Full Name	Muscleblind-like protein 2

NCBI Official Synonym Full Names	muscleblind like splicing regulator 2
NCBI Official Symbol	MBNL2
NCBI Official Synonym Symbols	MBLL; MBLL39; PRO2032
UniProt Protein Name	Muscleblind-like protein 2
UniProt Synonym Protein Names	Muscleblind-like protein 1; Muscleblind-like protein-like; Muscleblind-like protein-like 39
Protein Family	Muscleblind-like protein
UniProt Gene Name	MBNL2
UniProt Synonym Gene Names	MBLL; MBLL39; MLP1
UniProt Entry Name	MBNL2_HUMAN
NCBI Protein Information	muscleblind-like protein 2
NCBI Summary for MBNL2	This gene is a member of the muscleblind protein family which was initially described in Drosophila melanogaster. This gene encodes a C3H-type zinc finger protein that modulates alternative splicing of pre-mRNAs. Muscleblind proteins bind specifically to expanded dsCUG RNA but not to normal size CUG repeats and may thereby play a role in the pathophysiology of myotonic dystrophy. Several alternatively spliced transcript variants have been described but the full-length natures of only some have been determined. [provided by RefSeq, Mar 2012]
UniProt Comments for MBNL2	MBNL2: Mediates pre-mRNA alternative splicing regulation. Acts either as activator or repressor of splicing on specific pre-mRNA targets. Inhibits cardiac troponin-T (TNNT2) pre-mRNA exon inclusion but induces insulin receptor (IR) pre-mRNA exon inclusion in muscle. Antagonizes the alternative splicing activity pattern of CELF proteins. RNA-binding protein that binds to 5'ACACCC-3' core sequence, termed zipcode, within the 3'UTR of ITGA3. Binds to CUG triplet repeat expansion in myotonic dystrophy muscle cells by sequestering the target RNAs. Seems to regulate expression and localization of ITGA3 by transporting it from the nucleus to cytoplasm at adhesion plaques. May play a role in myotonic dystrophy pathophysiology (DM). Belongs to the muscleblind family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: RNA-binding Chromosomal Location of Human Ortholog: 13q32.1 Biological Process: regulation of RNA splicing
Research Articles on MBNL2	**1.** Sense DMPK RNA foci clearly co-localize with MBNL1 and MBNL2 proteins and accumulate in myotonic dystrophy 1 tissues during development.
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