Muscleblind-Like Protein 2 (MBNL2) ELISA Kit for Mouse

PRODUCT OVERVIEW

Product Name	Muscleblind-Like Protein 2 (MBNL2), ELISA Kit
Full Product Name	Mouse Muscleblind-Like Protein 2 (MBNL2) ELISA Kit
Product Gene Name	MBNL2 elisa kit
Species Reactivity	Mouse
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	39,356 Da
OMIM	AF491866 mRNA
3D Structure	ModBase 3D Structure for Q5VZF2
Related Product Information for MBNL2 elisa kit	MBS9907116 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Muscleblind-Like Protein 2 (MBNL2) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing MBNL2. The ELISA analytical biochemical technique of the MBS9907116 kit is based on MBNL2 antibody-MBNL2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect MBNL2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, MBNL2. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of MBNL2 elisa kit 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.

ADDITIONAL DETAILS

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

NCBI GI #	807045900
NCBI GeneID	10150
NCBI Accession #	NP_001292999.1
UniProt Primary Accession #	Q5VZF2
UniProt Secondary Accession #	Q3SXY5; Q58F19; Q8NEV3; Q8TD82
UniProt Related Accession #	Q5VZF2
GenBank Nucleotide #	NM_001306070.1
NCBI Official Full Name	muscleblind-like protein 2 isoform 4
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
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 Cellular Component: cytoplasm; nucleoplasm Molecular Function: metal ion binding; RNA binding Biological Process: mRNA processing; regulation of alternative mRNA splicing, via spliceosome; regulation of RNA splicing; 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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