

MBNL2 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP13023b**Specification**

MBNL2 Antibody (C-term) Blocking peptide - Product InformationPrimary Accession [Q5VZF2](#)**MBNL2 Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 10150**Other Names**

Muscleblind-like protein 2, Muscleblind-like protein 1, Muscleblind-like protein-like, Muscleblind-like protein-like 39, MBNL2, MBLL, MBLL39, MLP1

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

MBNL2 Antibody (C-term) Blocking peptide - Protein Information**Name** MBNL2**Synonyms** MBLL, MBLL39, MLP1**Function**

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. Together with RNA binding proteins RBPMS and RBFOX2, activates vascular smooth muscle cells alternative splicing events (By similarity). Regulates NCOR2 alternative splicing (By similarity). 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).

Cellular Location

Nucleus. Cytoplasm. Note=Greater concentration in the nucleus. Expressed in or near large cytoplasmic adhesion plaques (PubMed:16273094). Location in the cytoplasm is microtubule-dependent (PubMed:16273094). In both DM1 and DM2 patients, colocalizes with

nuclear foci of retained expanded-repeat transcripts (PubMed:11929853)

Tissue Location

Expressed in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.

MBNL2 Antibody (C-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

MBNL2 Antibody (C-term) Blocking peptide - Images**MBNL2 Antibody (C-term) Blocking peptide - Background**

This gene encodes a C3H-type zinc finger protein, which is similar to the *Drosophila melanogaster* muscleblind B protein. *Drosophila* muscleblind is a gene required for photoreceptor differentiation. Several alternatively spliced transcript variants have been described but the full-length nature of only some have been determined.

MBNL2 Antibody (C-term) Blocking peptide - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) ; He, F., et al. Protein Sci. 18(1):80-91(2009) Holt, I., et al. Am. J. Pathol. 174(1):216-227(2009) Paul, S., et al. EMBO J. 25(18):4271-4283(2006) Adereth, Y., et al. Nat. Cell Biol. 7(12):1240-1247(2005)