

MBNL3 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP58300

Specification

MBNL3 Polyclonal Antibody - Product Information

Application WB, IHC-P, IHC-F, IF, E

Primary Accession <u>Q9NUK0</u>

Reactivity
Host
Clonality
Calculated MW
Physical State
Rat, Pig, Bovine
Rabbit
Polyclonal
39 KDa
Liquid

Immunogen KLH conjugated synthetic peptide derived

from human MBNL3

laG

Epitope Specificity 251-354/354

Isotype
Purity
affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Nucleus. Cytoplasm. Note=Greater

concentration in the nucleus. In both DM1 and DM2 patients, colocalizes with nuclear

foci of retained expanded-repeat

transcripts.

SIMILARITY Belongs to the muscleblind family.

Contains 4 C3H1-type zinc fingers.

Important Note This product as supplied is intended for

research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

MBNL3 has been shown to inhibit muscle differentiation. MBNL3 belongs to a highly conserved family of tissue-specific alternative splicing regulators. This family is known to regulate terminal muscle differentiation through alternative splicing control and several groups have suggested that the family participates in the differentiation of photoreceptors, neurons, adipocytes and blood cell types. MBNL3 is expressed in myoblasts, muscle precursor cells, and during the early stages of myogenesis, but is detected at very low levels in terminally differentiated myotubes. MBNL proteins have been shown to sequester foci of expanded-repeat transcripts and are thought to therefore play a role in the molecular pathology of a group of neuromuscular diseases including the Myotonic Dystrophies.

MBNL3 Polyclonal Antibody - Additional Information

Gene ID 55796

Other Names

Muscleblind-like protein 3, Cys3His CCG1-required protein, Muscleblind-like X-linked protein,



Protein HCHCR, MBNL3, CHCR, MBLX39, MBXL

Target/Specificity

Highly expressed in the placenta.

Dilution

- WB~~1:1000<br \><span class</pre>
- ="dilution IHC-P">IHC-P~~N/A<br \><span class
- ="dilution_IHC-F">IHC-F~~N/A<br \><span class
- ="dilution_IF">IF \sim 1:50 \sim 200<br\>E \sim N/A

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

MBNL3 Polyclonal Antibody - Protein Information

Name MBNL3

Synonyms CHCR, MBLX39, MBXL

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. May play a role in myotonic dystrophy pathophysiology (DM). Could inhibit terminal muscle differentiation, acting at approximately the time of myogenin induction.

Cellular Location

Nucleus. Cytoplasm. Note=Greater concentration in the nucleus. In both DM1 and DM2 patients, colocalizes with nuclear foci of retained expanded-repeat transcripts

Tissue Location

Highly expressed in the placenta.

MBNL3 Polyclonal Antibody - Protocols

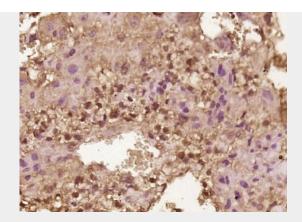
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MBNL3 Polyclonal Antibody - Images







Paraformaldehyde-fixed, paraffin embedded (Mouse placenta); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (MBNL3) Polyclonal Antibody, Unconjugated (bs-5721R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.