

CUGBP1 Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP51078

Specification

CUGBP1 Antibody - Product Information

Application Primary Accession Reactivity Host Clonality Calculated MW WB, ICC, IHC-P, E <u>Q92879</u> Human, Mouse, Rat Rabbit Polyclonal 52 KDa

CUGBP1 Antibody - Additional Information

Gene ID 10658

Other Names

CUGBP Elav-like family member 1, CELF-1, 50 kDa nuclear polyadenylated RNA-binding protein, Bruno-like protein 2, CUG triplet repeat RNA-binding protein 1, CUG-BP1, CUG-BP- and ETR-3-like factor 1, Deadenylation factor CUG-BP, Embryo deadenylation element-binding protein homolog, EDEN-BP homolog, RNA-binding protein BRUNOL-2, CELF1, BRUNOL2, CUGBP, CUGBP1, NAB50

Dilution WB~~1:1000 ICC~~N/A IHC-P~~N/A E~~N/A

Format 0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage Store at -20 °C.Stable for 12 months from date of receipt

CUGBP1 Antibody - Protein Information

Name CELF1

Synonyms BRUNOL2, CUGBP, CUGBP1, NAB50

Function

RNA-binding protein implicated in the regulation of several post-transcriptional events. Involved in pre-mRNA alternative splicing, mRNA translation and stability. Mediates exon inclusion and/or exclusion in pre-mRNA that are subject to tissue-specific and developmentally regulated alternative splicing. Specifically activates exon 5 inclusion of cardiac isoforms of TNNT2 during heart remodeling at the juvenile to adult transition. Acts both as an activator and as a repressor of a pair of coregulated exons: promotes inclusion of the smooth muscle (SM) exon but exclusion of



the non-muscle (NM) exon in actinin pre-mRNAs. Activates SM exon 5 inclusion by antagonizing the repressive effect of PTB. Promotes exclusion of exon 11 of the INSR pre-mRNA. Inhibits, together with HNRNPH1, insulin receptor (IR) pre- mRNA exon 11 inclusion in myoblast. Increases translation and controls the choice of translation initiation codon of CEBPB mRNA. Increases mRNA translation of CEBPB in aging liver (By similarity). Increases translation of CDKN1A mRNA by antagonizing the repressive effect of CALR3. Mediates rapid cytoplasmic mRNA deadenylation. Recruits the deadenylase PARN to the poly(A) tail of EDEN-containing mRNAs to promote their deadenylation. Required for completion of spermatogenesis (By similarity). Binds to (CUG)n triplet repeats in the 3'-UTR of transcripts such as DMPK and to Bruno response elements (BREs). Binds to muscle-specific splicing enhancer (MSE) intronic sites flanking the alternative exon 5 of TNNT2 pre-mRNA. Binds to AU-rich sequences (AREs or EDEN-like) localized in the 3'-UTR of JUN and FOS mRNAs. Binds to the IR RNA. Binds to the 5'-region of CDKN1A and CEBPB mRNAs. Binds with the 5'-region of CEBPB mRNA in aging liver. May be a specific regulator of miRNA biogenesis. Binds to primary microRNA pri-MIR140 and, with CELF2, negatively regulates the processing to mature miRNA (PubMed: 28431233).

Cellular Location Nucleus. Cytoplasm. Note=RNA-binding activity is detected in both nuclear and cytoplasmic compartments

Tissue Location Ubiquitous.

CUGBP1 Antibody - Protocols

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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

CUGBP1 Antibody - Images

CUGBP1 Antibody - Background

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CUGBP1 Antibody - References

Timchenko L.T., et al.Nucleic Acids Res. 24:4407-4414(1996). Good P.J., et al.J. Biol. Chem. 275:28583-28592(2000). Takahashi N., et al.J. Biochem. 130:581-587(2001). Paillard L., et al.J. Biol. Chem. 277:3232-3235(2002). Ota T., et al.Nat. Genet. 36:40-45(2004).