CELF-1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CELF-1, Polyclonal Antibody
Full Product Name	CELF-1 Antibody
Product Gene Name	anti-CELF-1 antibody
Product Synonym Names	CELF-1; Bruno-like protein 2; RNA-binding protein BRUNOL-2; CUG triplet repeat RNA-binding protein 1; CUG-BP1
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Specificity	The antibody detects endogenous levels of total CELF-1 protein.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	52,063 Da
Chromosome Location	Chromosome: 11; NC_000011.9 (47487489..47574792, complement). Location: 11p11
OMIM	601074
3D Structure	ModBase 3D Structure for Q92879
Immunogen	Synthesized peptide derived from internal of human CELF-1.
Product Categories/Family for anti-CELF-1 antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CELF-1 antibody	Western Blot (WB)
Application Notes for anti-CELF-1 antibody	WB: 1:500~1:3000

Related Product Information for anti-CELF-1 antibody	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 as both an activator and 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.
Product References and Citations for anti-CELF-1 antibody	Timchenko L.T., Nucleic Acids Res. 24:4407-4414 (1996).Good P.J., J. Biol. Chem. 275:28583-28592 (2000).Takahashi N., J. Biochem. 130:581-587 (2001)
Other Notes	Small volumes of anti-CELF-1 antibody 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 CELF-1 purchase	MBS8587585 is an antibody targeting CELF-1. Also known as CELF-1 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CELF-1. It may not necessarily be applicable to this product.

NCBI GI #	71164871
NCBI GeneID	10658
NCBI Accession #	NP_001020767.1
UniProt Primary Accession #	Q92879
UniProt Secondary Accession #	Q4LE52; Q9NP83; Q9NR06; B4E2U5; D3DQS0; F8W940
UniProt Related Accession #	Q92879
GenBank Nucleotide #	NM_001025596.2
NCBI Official Full Name	CUGBP Elav-like family member 1 isoform 3
NCBI Official Synonym Full Names	CUGBP, Elav-like family member 1
NCBI Official Symbol	CELF1
NCBI Official Synonym Symbols	CUGBP; NAB50; NAPOR; CUG-BP; CUGBP1; hNab50; BRUNOL2; EDEN-BP
UniProt Protein Name	CUGBP Elav-like family member 1
UniProt Synonym Protein Names	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
Protein Family	CUGBP Elav-like family
UniProt Gene Name	CELF1
UniProt Synonym Gene Names	BRUNOL2; CUGBP; CUGBP1; NAB50; CELF-1; CUG-BP1
UniProt Entry Name	CELF1_HUMAN

NCBI Protein Information	CUGBP Elav-like family member 1; CELF-1; CUG-BP1; bruno-like 2; EDEN-BP homolog; bruno-like protein 2; CUG RNA-binding protein; deadenylation factor CUG-BP; RNA-binding protein BRUNOL-2; CUG-BP- and ETR-3-like factor 1; CUG triplet repeat RNA-binding prot
NCBI Summary for CELF-1	Members of the CELF/BRUNOL protein family contain two N-terminal RNA recognition motif (RRM) domains, one C-terminal RRM domain, and a divergent segment of 160-230 aa between the second and third RRM domains. Members of this protein family regulate pre-mRNA alternative splicing and may also be involved in mRNA editing, and translation. This gene may play a role in myotonic dystrophy type 1 (DM1) via interactions with the dystrophia myotonica-protein kinase (DMPK) gene. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]
UniProt Comments for CELF-1	CELF1: 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 as both an activator and 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. 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. 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. Belongs to the CELF/BRUNOL family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Cell development/differentiation; RNA-binding; RNA processing Chromosomal Location of Human Ortholog: 11p11 Cellular Component: nucleoplasm; membrane; cytoplasm; nucleus; ribonucleoprotein complex Molecular Function: mRNA binding; protein binding; translation initiation factor binding; RNA binding; translation repressor activity, nucleic acid binding; BRE binding; nucleotide binding Biological Process: mRNA splice site selection; embryonic development; regulation of RNA splicing; negative regulation of translation; positive regulation of multicellular organism growth; mRNA processing; spermatid development; germ cell development; RNA interference
Research Articles on CELF-1	**1.** study suggests that regulation of CUGBP1 and MBNL1 is essential for accurate control of destabilization of a broad spectrum of mRNAs as well as of alternative splicing events
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