Datasheet for ABIN965946

anti-CELF1 antibody (N-Term)

5 Publications

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Overview

Quantity:	0.1 mg
Target:	CELF1
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CELF1 antibody is un-conjugated
Application:	Immunohistochemistry (IHC)

Product Details

Immunogen:	Polyclonal antibody produced in rabbits immunizing with a synthetic peptide corresponding to N-terminal residues of human CUGBP1 (CUG-BP- and ETR-3-like factor 1)

Target Details

Target:	CELF1
Alternative Name:	CUGBP1 (CELF1 Products)
Background:	CUGBP1 (CUG-BP- and ETR-3-like factor 1) is implicated in the regulation of several post-transcriptional events. CUGBP1 is involved in pre-mRNA alternative splicing, mRNA translation and stability. CUGBP1 mediates exon inclusion and/or exclusion in pre-mRNA that are subject to tissue-specific and developmentally regulated alternative splicing. CUGBP1 specifically activates exon 5 inclusion of cardiac isoforms of TNNT2 during heart remodeling at the juvenile

Target Details

	to adult transition. CUGBP1 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. CUGBP1 activates SM exon 5 inclusion by antagonizing the repressive effect of PTB. CUGBP1 promotes exclusion of exon 11 of the INSR pre-mRNA. CUGBP1 increases translation and controls the choice of translation initiation codon of CEBPB mRNA. CUGBP1 increases mRNA translation of CEBPB in aging liver. CUGBP1 increases translation of CDKN1A mRNA by antagonizing the repressive effect of CALR3. CUGBP1 mediates rapid cytoplasmic mRNA deadenylation. CUGBP1 recruits the deadenylase PARN to the poly(A) tail of EDEN-containing mRNAs to promote their deadenylation. Required for completion of spermatogenesis (By similarity). CUGBP1 binds to (CUG)n triplet repeats in the 3'-UTR of transcripts such as DMPK and to Bruno response elements (BREs). Synonyms: BRUNOL2, CELF1, CUGBP, NAB50(CELF-1, Bruno-like protein 2, RNA-binding protein BRUNOL-2, CUG triplet repeat RNA-binding protein 1, Deadenylation factor CUG-BP, 50 kDa nuclear polyadenylated RNA-binding protein, Embryo deadenylation element-binding protein homolog, CUG-BP1, EDEN-BP homolog)
Pathways:	Ribonucleoprotein Complex Subunit Organization

Application Details

Restrictions:	For Research Use only

Handling

Storage:	4 °C

Publications

Product cited in:	Taylor, Devon, Millar, Porteous: "Evolutionary constraints on the Disrupted in Schizophrenia locus." in: **Genomics**, Vol. 81, Issue 1, pp. 67-77, (2003) (PubMed). Morris, Kandpal, Ma, Austin: "DISC1 (Disrupted-In-Schizophrenia 1) is a centrosome-associated protein that interacts with MAP1A, MIPT3, ATF4/5 and NUDEL: regulation and loss of interaction with mutation." in: **Human molecular genetics**, Vol. 12, Issue 13, pp. 1591-608, (2003) (PubMed). Ozeki, Tomoda, Kleiderlein, Kamiya, Bord, Fujii, Okawa, Yamada, Hatten, Snyder, Ross, Sawa: " Disrupted-in-Schizophrenia-1 (DISC-1): mutant truncation prevents binding to NudE-like

(NUDEL) and inhibits neurite outgrowth." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 100, Issue 1, pp. 289-94, (2003) (PubMed).

Millar, Wilson-Annan, Anderson, Christie, Taylor, Semple, Devon, St Clair, Muir, Blackwood, Porteous: "Disruption of two novel genes by a translocation co-segregating with schizophrenia." in: **Human molecular genetics**, Vol. 9, Issue 9, pp. 1415-23, (2000) (PubMed).

Seki, Ohira, Nagase, Ishikawa, Miyajima, Nakajima, Nomura, Ohara: "Characterization of cDNA clones in size-fractionated cDNA libraries from human brain." in: **DNA research : an international journal for rapid publication of reports on genes and genomes**, Vol. 4, Issue 5, pp. 345-9, (1998) (PubMed).