



Anti-CELF2 (aa 1-198) polyclonal antibody (DPABH-01974)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description

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 TNNT2 in embryonic, but not adult, skeletal muscle. Activates TNNT2 exon 5 inclusion by antagonizing the repressive effect of PTB. 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. Promotes inclusion of exon 21 and exclusion of exon 5 of the NMDA receptor R1 pre-mRNA. Involved in the apoB RNA editing activity. Increases COX2 mRNA stability and inhibits COX2 mRNA translation in epithelial cells after radiation injury (By similarity). Modulates the cellular apoptosis program by regulating COX2-mediated prostaglandin E2 (PGE2) expression (By similarity). Binds to (CUG)_n triplet repeats in the 3-UTR of transcripts such as DMPK. Binds to the muscle-specific splicing enhancer (MSE) intronic sites flanking the TNNT2 alternative exon 5. Binds preferentially to UG-rich sequences, in particular UG repeat and UGUU motifs. Binds to apoB mRNA, specifically to AU-rich sequences located immediately upstream of the edited cytidine. Binds AU-rich sequences in the 3-UTR of COX2 mRNA (By similarity). Binds to an intronic RNA element responsible for the silencing of exon 21 splicing (By similarity). Binds to (CUG)_n repeats.

Immunogen	Recombinant protein fragment containing a sequence corresponding to a region within amino acids 1 and 198 of Human Elav-type RNA-binding protein ETR3 (UniProt ID: O95319).
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Immunogen affinity purified

Conjugate	Unconjugated
Applications	WB, ICC/IF
Format	Liquid
Size	50 µl
Buffer	pH: 7.40; Constituents: 1.4% Sodium phosphate, 1.7% Sucrose, 0.88% Sodium chloride, 0.1% BSA
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

GENE INFORMATION

Gene Name	CELF2 CUGBP, Elav-like family member 3 [Homo sapiens]
Official Symbol	CELF2
Synonyms	CELF2; CUGBP, Elav-like family member 2; ETR3; ETR-3; NAPOR; CUGBP2; BRUNOL3; CUGBP Elav-like family member 2; CELF-2; CUG-BP2; bruno-like protein 3; RNA-binding protein BRUNOL-3; CUG-BP- and ETR-3-like factor 2; ELAV-type RNA-binding protein 3; CUG triplet repeat RNA-binding protein 2; neuroblastoma apoptosis-related RNA-binding protein;
Entrez Gene ID	10659
Protein Refseq	NP_001020247.1
UniProt ID	O95319
Pathway	mRNA processing;
Function	RNA binding; nucleotide binding; poly(A) RNA binding;