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CELF2 Rabbit mAb

Catalog # AP75253

Product Information

Application	WB, IHC-P, IHC-F, FC, IP
Primary Accession	O95319
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	54285

Additional Information

Gene ID	10659
Other Names	CELF2
Dilution	WB~~1:1000-1:5000 IHC-P~~N/A IHC-F~~N/A FC~~1:100-1:200 IP~~1:50-1:100
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

Name	CELF2
Synonyms	BRUNOL3, CUGBP2, ETR3, NAPOR
Function	RNA-binding protein implicated in the regulation of several post-transcriptional events (PubMed:11577082, PubMed:11158314, PubMed:11931771, PubMed:12649496, PubMed:14973222, PubMed:15657417). Involved in pre-mRNA alternative splicing, mRNA translation and stability (PubMed:11158314, PubMed:11931771, PubMed:12649496, PubMed:14973222, PubMed:15657417, PubMed:15894795). Mediates exon inclusion and/or exclusion in pre-mRNA that are subject to tissue- specific and developmentally regulated alternative splicing (PubMed:11158314, PubMed:11931771, PubMed:12649496). Specifically activates exon 5 inclusion of TNNT2 in embryonic, but not adult, skeletal muscle (PubMed:11158314, PubMed:11931771). Activates TNNT2 exon 5 inclusion by antagonizing the repressive effect of PTB (PubMed:11931771). Acts both as an activator and as a repressor of a pair of

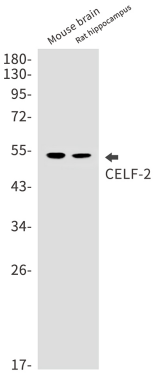
	coregulated exons: promotes inclusion of the smooth muscle (SM) exon but exclusion of the non-muscle (NM) exon in actinin pre-mRNAs (PubMed:12649496). Promotes inclusion of exon 21 and exclusion of exon 5 of the NMDA receptor R1 pre-mRNA (By similarity). Involved in the apoB RNA editing activity (PubMed:11577082). Increases COX2 mRNA stability and inhibits COX2 mRNA translation in epithelial cells after radiation injury (By similarity). Binds to the muscle-specific splicing enhancer (MSE) intronic sites flanking the TNNT2 alternative exon 5 (PubMed:11158314). Binds preferentially to UG-rich sequences, in particular UG repeat and UGUU motifs (PubMed:11931771, PubMed:15657417). Binds to apoB mRNA, specifically to AU-rich sequences located immediately upstream of the edited cytidine (PubMed:11577082). 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 (PubMed:11158314). May be a specific regulator of miRNA biogenesis (PubMed:28431233). Binds to primary microRNA pri-MIR140 and, with CELF1, negatively regulates the processing to mature miRNA (PubMed:28431233).
Cellular Location	Nucleus. Cytoplasm {ECO:0000250|UniProtKB:Q7T2T1, ECO:0000250|UniProtKB:Q9Z0H4} Note=Accumulates in the cytoplasm after ionizing radiation (By similarity). Colocalizes with APOBEC1 and A1CF. RNA-binding activity is detected in both nuclear and cytoplasmic compartments.
Tissue Location	Expressed in frontal cortex. Isoform 1 is expressed in brain and lung. Isoform 2 is expressed in heart, brain, placenta, lung, liver, kidney, skeletal muscle and pancreas. Isoform 4 is expressed in heart, lung, skeletal muscle, kidney and pancreas

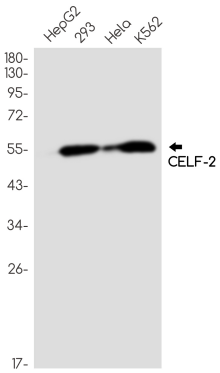
Background

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 exonS 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 . Modulates the cellular apoptosis program by regulating COX2-mediated prostaglandin E2 (PGE2) expression . 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 immediatly upstream of the edited cytidine. Binds AU-rich sequences in the 3'-UTR of COX2 mRNA . Binds to an intronic RNA element responsible for the silencing of exon 21 splicing . Binds to (CUG)n repeats . May be a specific regulator of miRNA biogenesis. Binds to primary microRNA pri-MIR140 and, with CELF1, negatively regulates the processing to mature miRNA (PubMed:28431233).

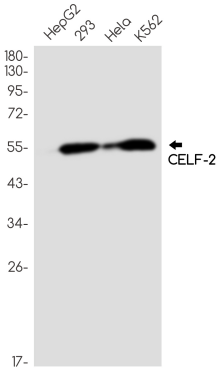
Images

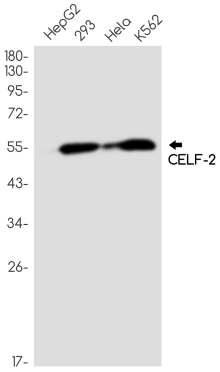
Western blot analysis of CELF2 in mouse brain, rat hippocampus lysates using CELF2 antibody.

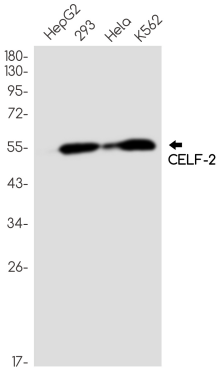




Western blot analysis of CELF2 in HepG2, 293, Hela, K562 lysates using CELF2 antibody.







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