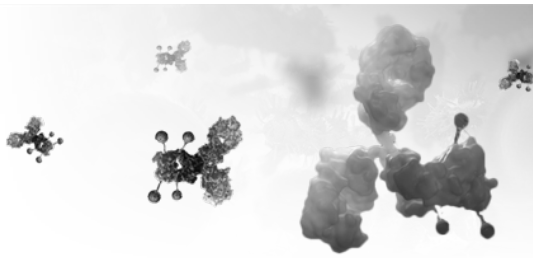

Mouse Anti-CELF4 monoclonal antibody, clone O557/90 (CABT-RM153)

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

PRODUCT INFORMATION

Specificity	Specifically detects CUGBP Elav-like family member 4 (CELF4). It targets an epitope with in 86 amino acids from the N-terminal region. It does not react with CELF6.
Target	CELF4
Immunogen	A recombinant fragment corresponding to 86 amino acids from the N-terminal region of human CUGBP Elav-like family member 4 (CELF-4).
Isotype	IgG2a, κ
Source/Host	Mouse
Species Reactivity	Human, Mouse, Rat
Clone	O557/90
Purification	Protein G purified
Conjugate	unconjugated
Applications	WB
Epitope	N-terminus
Molecular Weight	~46 kDa observed; 51.97 kDa calculated. Uncharacterized bands may be observed in some lysate(s).
Format	Liquid
Size	100 µl

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

Buffer	0.1 M Tris-Glycine (pH 7.4), 150 mM NaCl
Preservative	0.05% sodium azide
Storage	Stable for 1 year at 2-8°C from date of receipt.

BACKGROUND

Introduction	CUGBP Elav-like family member 4 is encoded by the CELF4 gene in human. CELF-4 is a RNA-binding protein that is implicated in the regulation of pre-mRNA alternative splicing. It is ubiquitous in its distribution, but is strongly expressed in the cerebellum, hippocampus, amygdala, temporal and frontal cortex, and frontal lobes. It mediates exon inclusion and/or exclusion in pre-mRNA that are subject to tissue-specific and developmentally regulated alternative splicing. It is shown to specifically activate exon 5 inclusion of cardiac isoforms of TNNT2 during heart remodeling at the juvenile to adult transition. CELF-4 is reported to promote exclusion of both the smooth muscle and non-muscle exons in actinin pre-mRNAs. It binds to muscle-specific splicing enhancer (MSE) intronic sites flanking the alternative exon 5 of TNNT2 pre-mRNA. The N-terminal region (aa 1-298) is considered to be sufficient for its RNA-binding and MSE-dependent splicing activity. CELF-4 contains contain two N-terminal RNA recognition motif (RRM) domains (aa 54-135 and 152-232) and one C-terminal RRM domain (aa 404-479). Five isoforms of CELF-4 have been described that are produced by alternative splicing.
Keywords	CELF4; CUGBP, Elav-like family member 4; BRUNOL4; BRUNOL-4; CUGBP Elav-like family member 4; CELF-4; bruno-like protein 4; RNA-binding protein BRUNOL4; RNA-binding protein BRUNOL-4; LYST-interacting protein LIP9

GENE INFORMATION

Entrez Gene ID	56853
UniProt ID	Q9BZC1

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