

# Human/Mouse/Rat CUGBP1/CELF1 Antibody

Monoclonal Mouse IgG<sub>2B</sub> Clone # 850717

Catalog Number: MAB9388

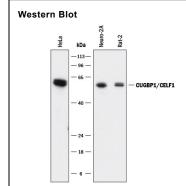
DESCRIPTION			
Species Reactivity	Human/Mouse/Rat		
Specificity	Detects human CUGBP1/CELF1 in direct ELISAs and Western blots.		
Source	Monoclonal Mouse IgG <sub>2B</sub> Clone # 850717		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	E. coli-derived recombinant human CUGBP1/CELF1 Met1-Gly60 Accession # Q92879		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

#### APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	0.5 μg/mL	See Below
Immunohistochemistry	8-25 μg/mL	See Below

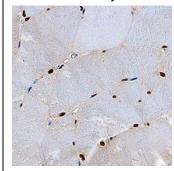
#### DATA



#### Detection of Human, Mouse, and Rat CUGBP1/CELF1 by Western Blot. Western blot shows lysates of HeLa human

cervical epithelial carcinoma cell line, Neuro-2A mouse neuroblastoma cell line, and Rat-2 rat embryonic fibroblast cell line. PVDF membrane was probed with 0.5 µg/mL of Mouse Anti-Human/Mouse/Rat CUGBP1/CELF1 Monoclonal Antibody (Catalog # MAB9388) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for CUGBP1/CELF1 at approximately 50 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

## Immunohistochemistry



# CUGBP1/CELF1 in Human Skeletal Muscle. CUGBP1/CELF1 was detected in immersion fixed paraffin-embedded sections of human skeletal muscle using Mouse Anti-Human/Mouse/Rat CUGBP1/CELF1 Monoclonal Antibody (Catalog # MAB9388) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin

stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to nuclei. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections

# PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

\*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage

# Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

### BACKGROUND

CELF-1 is a highly conserved, ubiquitous protein which binds pre-mRNA in the nucleus to mediate alternative splicing to produce alternative transcripts in tissue-specific and developmentally regulated events. In the cytoplasm, CELF-1 binds to GRE-containing transcripts which are rapidly degraded. Additionally, cytoplasmic CELF-1 binds to untranslated regions of transcripts for stability and translation efficiency. Many transcripts targeted by CELF-1 show rapid up-regulation leading to cellular activation or proliferation, while others show down-regulation. CELF-1 has also been shown to localize to cytoplasmic stress granules when cells are stressed. This gene is associated with myotonic dystrophy type 1 (DM1) disease though interactions with the dystrophia myotnica-protein kinase (DMPK) gene.

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