SANTA CRUZ BIOTECHNOLOGY, INC.

CELF5 (G-12): sc-138197



BACKGROUND

The CELF (CUG-BP- and ETR-3-like factor) protein family consists of six RNAbinding proteins that are involved in editing and translating mRNA while regulating alternative splicing of pre-mRNA. CELF family members contain 2 adjacent N-terminal RRM (RNA recognition motif) domains and one C-terminal RRM domain, which are connected by an amino acid linker region of more than 160 amino acids. CELF5 (CUG-BP- and ETR-3-like factor 5), also known as Bruno-like protein 5 or BRUNOL5, is a 485 amino acid RNA-binding protein belonging to the CELF family. Localizing to nucleus and cytoplasm, CELF5 is involved in regulating alternative splicing of pre-mRNA and binds muscle-specific splicing enhancer (MSE) intronic sites near exon 5 of TNNT2 pre-mRNA. CELF5 is expressed in all regions of fetal and adult brain with little expression elsewhere. Two CELF5 isofoms are produced as a result of alternative splicing, and the gene encoding CELF5 maps to human chromosome 19p13.3.

REFERENCES

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- Ladd, A.N., et al. 2004. CELF6, a member of the CELF family of RNA-binding proteins, regulates muscle-specific splicing enhancer-dependent alternative splicing. J. Biol. Chem. 279: 17756-17764.
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- Barreau, C., et al. 2006. Mammalian CELF/Bruno-like RNA-binding proteins: molecular characteristics and biological functions. Biochimie 88: 515-525.
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CHROMOSOMAL LOCATION

Genetic locus: CELF5 (human) mapping to 19p13.3; Celf5 (mouse) mapping to 10 C1.

SOURCE

CELF5 (G-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of CELF5 of human origin.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-138197 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CELF5 (G-12) is recommended for detection of CELF5 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with CELF3 or CELF6.

CELF5 (G-12) is also recommended for detection of CELF5 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for CELF5 siRNA (h): sc-97170, CELF5 siRNA (m): sc-141757, CELF5 shRNA Plasmid (h): sc-97170-SH, CELF5 shRNA Plasmid (m): sc-141757-SH, CELF5 shRNA (h) Lentiviral Particles: sc-97170-V and CELF5 shRNA (m) Lentiviral Particles: sc-141757-V.

Molecular Weight of CELF5: 52 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluo-rescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.