

CELF6 (Q-14): sc-164029

BACKGROUND

The CELF (CUG-BP- and ETR-3-like factor) protein family consists of six RNA-binding proteins that are involved in editing and translating mRNA while regulating alternative splicing of pre-mRNA. CELF family members contain two 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. CELF6 (CUGBP, Elav-like family member 6), also known as BRUNOL6, is a 481 amino acid protein that localizes to nucleus and cytoplasm. CELF6 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. CELF6 is expressed in all regions of fetal and adult brain with little expression elsewhere. Two CELF6 isoforms are produced as a result of alternative splicing, and the gene encoding CELF6 maps to human chromosome 15q23.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CELF6 (human) mapping to 15q23; Celf6 (mouse) mapping to 9 B.

SOURCE

CELF6 (Q-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of CELF6 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 IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-164029 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CELF6 (Q-14) is recommended for detection of CELF6 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 other CELF family members.

CELF6 (Q-14) is also recommended for detection of CELF6 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for CELF6 siRNA (h): sc-90308, CELF6 siRNA (m): sc-142262, CELF6 shRNA Plasmid (h): sc-90308-SH, CELF6 shRNA Plasmid (m): sc-142262-SH, CELF6 shRNA (h) Lentiviral Particles: sc-90308-V and CELF6 shRNA (m) Lentiviral Particles: sc-142262-V.

Molecular Weight of CELF6 isoforms: 50/39 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) Immunofluorescence: 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.