

# CELF3 (T-12): sc-132227

## BACKGROUND

CELF3 (CUG-BP- and ETR-3-like factor 3), also known as TNRC4 (trinucleotide repeat containing 4), CAGH4 (CAG repeat protein 4), ETR-1 (ELAV-type RNA-binding protein 1), ERDA4 (expanded repeat domain protein CAG/CTG 4) or BRUNOL1 (Bruno-like protein 1), is an RNA-binding protein that belongs to the CELF/BRUNOL family of proteins. Expressed specifically in brain, CELF3 contains three RRM (RNA recognition motif) domains (two at the N-terminus and one at the C-terminus) and localizes to the nucleus and the cytoplasm. As is characteristic of the CELF/BRUNOL family, CELF3 binds specifically to muscle-specific splicing enhancer (MSE)-containing RNAs and is believed to play a role in the regulation of pre-mRNA alternative splicing. In addition, CELF3 may participate in translation and mRNA editing. Due to alternative splicing events, CELF3 exists as three isoforms.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: TNRC4 (human) mapping to 1q21.3; Tnrc4 (mouse) mapping to 3 F2.1.

## SOURCE

CELF3 (T-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of CELF3 of human origin.

## 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-132227 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

CELF3 (T-12) is recommended for detection of CELF3 isoforms 1-3 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 CELF5 or CELF6.

CELF3 (T-12) is also recommended for detection of CELF3 isoforms 1-3 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for CELF3 siRNA (h): sc-88405, CELF3 siRNA (m): sc-142261, CELF3 shRNA Plasmid (h): sc-88405-SH, CELF3 shRNA Plasmid (m): sc-142261-SH, CELF3 shRNA (h) Lentiviral Particles: sc-88405-V and CELF3 shRNA (m) Lentiviral Particles: sc-142261-V.

Molecular Weight of CELF3: 50 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204.

## 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.

## STORAGE

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

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.