



ZCCHC11 (E-13): sc-103938

BACKGROUND

Zinc-finger proteins contain DNA-binding domains and have a wide variety of functions, most of which encompass some form of transcriptional activation or repression. ZCCHC11 (zinc finger, CCHC domain containing 11), also known as terminal uridylyltransferase 4 (TUTase 4) or PAPD3, is a 1,644 amino acid nuclear and cytoplasmic protein, mostly located to the nucleus, belonging to the DNA polymerase type-B-like family. Functioning as a uridylyltransferase, ZCCHC11 acts in conjunction with LIN-28 to suppress microRNA biogenesis through pre-microRNA uridylation. ZCCHC11 exists as two alternatively spliced isoforms that are required for stem cell maintenance, cytokine expression and play a role in suppressing Toll-like receptor (TLR) induced NF κ B activity by binding to T2BP (TRAF-interacting protein with forkhead-associated domain).

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Zcchc11 (rat) mapping to 5q35.

SOURCE

ZCCHC11 (E-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of ZCCHC11 of rat origin.

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.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-103938 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ZCCHC11 (E-13) is recommended for detection of ZCCHC11 of rat 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).

Molecular Weight of ZCCHC11: 200 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.

PROTOCOLS

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