**BACKGROUND**

TU Tase, also known as U6 snRNA-specific terminal uridylyltransferase 1 (U6-TUTase), RNA-binding motif protein 21, TUT1, PAPD2, STARPA2, or RBM21, is an 874 amino acid protein that functions as a terminal uridylyltransferase and nuclear poly(A) polymerase. Localizing predominantly to nucleolus with minor distribution in nucleus, TU Tase catalyzes the uridylylation of U6 small nuclear RNA, plays an essential role in both cell proliferation and gene expression, and undergoes posttranslational phosphorylation following DNA damage, most likely by either ATR or ATR. Encoded by a gene that maps to human chromosome 11q12.3, TU Tase contains an RNA recognition motif, an N-terminal C2H2 zinc finger RNA-binding domain and a TRF4 element.

**REFERENCES**


9. Laishram, R.S., et al. 2010. The poly A polymerase Star-PAP controls 3’-end cleavage by promoting CPSF interaction and specificity toward the pre-mRNA. EMBO J. 29: 4132-4145.

**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-162362 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**APPLICATIONS**

TU Tase (G-20) is recommended for detection of TU Tase 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).

TU Tase (G-20) is also recommended for detection of TU Tase in additional species, including equine, canine and porcine.

Suitable for use as control antibody for TU Tase siRNA (h): sc-96738, TU Tase siRNA (m): sc-154810, TU Tase shRNA Plasmid (h): sc-96738-SH, TU Tase shRNA Plasmid (m): sc-154810-SH, TU Tase shRNA (h) Lentiviral Particles: sc-96738-V and TU Tase shRNA (m) Lentiviral Particles: sc-154810-V.

Molecular Weight of TU Tase: 94 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.

**STORAGE**

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

**PROTOCOLS**

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