

# TRUB2 (Y-14): sc-244504

## BACKGROUND

TRUB2 (tRNA pseudouridine synthase 2) is a 331 amino acid protein that most likely is responsible for the synthesis of pseudouridine from isomerization of uracil in tRNA. TRUB2 contains one TruB domain and shares 30% sequence similarity with TRUB1. Both TRUB1 and TRUB2 are phylogenetically linked to the original eubacterial tRNA synthases and distinct from Dyskerin. The gene encoding TRUB2 maps to human chromosome 9, which houses over 900 genes and comprises nearly 4% of the human genome. Hereditary hemorrhagic telangiectasia, which is characterized by harmful vascular defects, and familial dysautonomia, are both associated with chromosome 9. Notably, chromosome 9 encompasses the largest interferon family gene cluster.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: TRUB2 (human) mapping to 9q34.11; Trub2 (mouse) mapping to 2 B.

## SOURCE

TRUB2 (Y-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TRUB2 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-244504 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

TRUB2 (Y-14) is recommended for detection of TRUB2 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).

TRUB2 (Y-14) is also recommended for detection of TRUB2 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for TRUB2 siRNA (h): sc-92702, TRUB2 siRNA (m): sc-154700, TRUB2 shRNA Plasmid (h): sc-92702-SH, TRUB2 shRNA Plasmid (m): sc-154700-SH, TRUB2 shRNA (h) Lentiviral Particles: sc-92702-V and TRUB2 shRNA (m) Lentiviral Particles: sc-154700-V.

Molecular Weight of TRUB2: 37 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

## 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<sup>™</sup> compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> 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<sup>™</sup> 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](http://www.scbt.com) or our catalog for detailed protocols and support products.