**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 subcellular 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**


**CHROMOSOMAL LOCATION**

Genetic locus: TRUB2 (human) mapping to 9q34.11.

**SOURCE**

TRUB2 (E-6) is a mouse monoclonal antibody raised against amino acids 141-309 mapping near the C-terminus of TRUB2 of human origin.

**PRODUCT**

Each vial contains 200 µg IgGκ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

TRUB2 (E-6) is recommended for detection of TRUB2 of human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:300).

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

Molecular Weight of TRUB2: 37 kDa.

Positive Controls: IMR-32 cell lysate: sc-2409, JAR cell lysate: sc-2276 or HeLa whole cell lysate: sc-2200.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-RTC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Hard-set Mounting Medium: sc-24941 or UltraCruz® Mounting Medium: sc-359850.

**DATA**

**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 for detailed protocols and support products.