TNK1 (H-11): sc-390359

**BACKGROUND**

TNK1 is a 666 amino acid protein that localizes to both the nucleus and the cytoplasm and contains one SH3 domain and one protein kinase domain. Expressed at high levels in fetal lung, liver, brain and kidney and at lower levels in adult ovary, colon, prostate and testis, TNK1 functions to catalyze the ATP-dependent conversion of an L-tyrosine protein to a phosphorylated L-tyrosine protein and is thought to be involved in the negative regulation of cell growth, possibly playing a role in tumor suppression. Additionally, TNK1 may be associated with phospholipid signal transduction and fetal development pathways, further suggesting an important role in growth and development. Multiple isoforms of TNK1 exist and are encoded by a gene which maps to human chromosome 17p13.1.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: TNK1 (human) mapping to 17p13.1; Tnk1 (mouse) mapping to 11 B3.

**SOURCE**

TNK1 (H-11) is a mouse monoclonal antibody raised against amino acids 147-199 mapping near the N-terminus of TNK1 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG₂κ light chain in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

TNK1 (H-11) is recommended for detection of TNK1 of mouse, rat and 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 1:30-1:3000).

Suitable for use as control antibody for TNK1 siRNA (h): sc-93553, TNK1 siRNA (m): sc-154541, TNK1 shRNA Plasmid (h): sc-93553-SH, TNK1 shRNA Plasmid (m): sc-154541-SH, TNK1 shRNA (h) Lentiviral Particles: sc-93553-V and TNK1 shRNA (m) Lentiviral Particles: sc-154541-V.

Molecular Weight of TNK1: 72 kDa.

Positive Controls: T-47D cell lysate: sc-2293, Jurkat whole cell lysate: sc-2204 or Neuro-2A whole cell lysate: sc-364185.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000). Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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-IgG κ BP-FITC: sc-516140 or m-IgG κ B P-HRP (Cruz κ BP-HRP): sc-516214 (dilution range 1:50-1:200) with UltraCruz® Hard-set Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

**DATA**

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**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 website at www.scbt.com for detailed protocols and support products.