TTC13 (K-19): sc-249116



The Power to Question

BACKGROUND

TTC13 (tetratricopeptide repeat protein 13) is an 860 amino acid protein that contains 7 TPR repeats and exists as 2 alternatively spliced isoforms. The gene that encodes TTC13 maps to human chromosome 1q42.2 and mouse chromosome 8 E2. Chromosome 1 is the largest human chromosome spanning about 260 million base pairs and making up 8% of the human genome. There are about 3,000 genes on chromosome 1, and considering the great number of genes there are also a large number of diseases associated with chromosome 1. Aberrations in chromosome 1 are found in a variety of cancers including head and neck cancer, malignant melanoma and multiple myeloma.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TTC13 (human) mapping to 1q42.2; Ttc13 (mouse) mapping to 8 E2.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

SOURCE

TTC13 (K-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TTC13 of human origin.

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-249116 P, ($100 \mu g$ peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TTC13 (K-19) is recommended for detection of TTC13 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); non cross-reactive with other TTC family members.

TTC13 (K-19) is also recommended for detection of TTC13 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for TTC13 siRNA (h): sc-88673, TTC13 siRNA (m): sc-154751, TTC13 shRNA Plasmid (h): sc-88673-SH, TTC13 shRNA Plasmid (m): sc-154751-SH, TTC13 shRNA (h) Lentiviral Particles: sc-88673-V and TTC13 shRNA (m) Lentiviral Particles: sc-154751-V.

Molecular Weight of TTC13 isoforms: 97/91 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.