# TTC40 (S-20): sc-241988



The Power to Question

#### **BACKGROUND**

C10orf92 (chromosome 10 open reading frame 92) is a 1,530 amino acid protein that contains 2 TPR repeats and exists as 3 alternatively spliced isoforms. The gene encoding C10orf92 maps to human chromosome 10q26.3. Spanning nearly 135 million base pairs, chromosome 10 makes up approximately 4.5% of total DNA in cells and encodes nearly 1,200 genes. Several protein-coding genes, including those that encode for chemokines, cadherins, excision repair proteins, early growth response factors (Egrs) and fibroblast growth receptors (FGFRs), are located on chromosome 10. Defects in some of the genes that map to chromosome 10 are associated with Charcot-Marie Tooth disease, Jackson-Weiss syndrome, Usher syndrome, nonsyndromatic deafness, Wolman's syndrome, Cowden syndrome, multiple endocrine neoplasia type 2 and porphyria.

# **REFERENCES**

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# **CHROMOSOMAL LOCATION**

Genetic locus: TTC40 (human) mapping to 10q26.3; E030019B06Rik (mouse) mapping to 7 F4.

## **SOURCE**

TTC40 (S-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TTC40 of human origin.

## **PRODUCT**

Each vial contains 200  $\mu g$  IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-241988 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

#### **APPLICATIONS**

TTC40 (S-20) is recommended for detection of TTC40 of human origin, E030019B06Rik of mouse origin and the corresponding rat homolog 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).

Suitable for use as control antibody for TTC40 siRNA (h): sc-90811, E030019B06Rik siRNA (m): sc-143221, TTC40 shRNA Plasmid (h): sc-90811-SH, E030019B06Rik shRNA Plasmid (m): sc-143221-SH, TTC40 shRNA (h) Lentiviral Particles: sc-90811-V and E030019B06Rik shRNA (m) Lentiviral Particles: sc-143221-V.

Molecular Weight of TTC40: 173 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) 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.

## **RESEARCH USE**

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

# **PROTOCOLS**

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

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