# TP53INP2 (G-15): sc-85972



The Power to Question

#### **BACKGROUND**

TP53INP2 (tumor protein p53 inducible nuclear protein 2), also known as DOR or PINH, is a 220 amino acid nuclear protein that is expressed in developing murine brain and spinal cord, as well as in the sensory and motor neuron tracts of the peripheral nervous system. A novel protein involved in the autophagy of mammalian cells, TP53INP2 translocates from the nucleus to the autophagosome structures after activation of autophagy by Rapamycin or starvation. Necessary for autophagosome development and considered a scaffold protein, TP53INP2 recruits LC3 and/or LC3-related proteins, such as GABARAP and GABARAP-like2, to the autophagosome membrane by interacting with the transmembrane protein TMEM49. The gene encoding TP53INP2 is located on human chromosome 20, which is comprised of approximately 2% of the human genome and contains nearly 63 million bases that encode over 600 genes.

## **REFERENCES**

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## CHROMOSOMAL LOCATION

Genetic locus: TP53INP2 (human) mapping to 20q11.22; Trp53inp2 (mouse) mapping to 2 H1.

#### **SOURCE**

TP53INP2 (G-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TP53INP2 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-85972 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

#### **APPLICATIONS**

TP53INP2 (G-15) is recommended for detection of TP53INP2 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).

TP53INP2 (G-15) is also recommended for detection of TP53INP2 in additional species, including equine and porcine.

Suitable for use as control antibody for TP53INP2 siRNA (h): sc-76717, TP53INP2 siRNA (m): sc-154565, TP53INP2 shRNA Plasmid (h): sc-76717-SH, TP53INP2 shRNA Plasmid (m): sc-154565-SH, TP53INP2 shRNA (h) Lentiviral Particles: sc-76717-V and TP53INP2 shRNA (m) Lentiviral Particles: sc-154565-V.

Molecular Weight of TP53INP2: 24 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.

# **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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