

PRTFDC1 (H-49): sc-292631

BACKGROUND

PRTFDC1 (phosphoribosyltransferase domain-containing protein 1), also known as HHGP, is a 225 amino acid protein that belongs to the purine/pyrimidine phosphoribosyltransferase family. The functions of PRTFDC1 are not well understood; however it has been suggested that it is frequently silenced in oral squamous-cell carcinomas by aberrant promoter hypermethylation. Conserved in vertebrates, PRTFDC1 is suggested to be a possible tumor-suppressor. PRTFDC1 is encoded by a gene which maps to chromosome 10. Spanning nearly 135 million base pairs, chromosome 10 makes up approximately 4.5% of the total DNA in cells and encodes nearly 1,200 genes. Three isoforms of PRTFDC1 exist due to alternative splicing events.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PRTFDC1 (human) mapping to 10p12.1.

SOURCE

PRTFDC1 (H-49) is a rabbit polyclonal antibody raised against amino acids 24-72 mapping near the N-terminus of PRTFDC1 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.

APPLICATIONS

PRTFDC1 (H-49) is recommended for detection of PRTFDC1 of human and rat origin by Western Blotting (starting dilution 1:200, 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).

PRTFDC1 (H-49) is also recommended for detection of PRTFDC1 in additional species, including equine, canine, porcine and avian.

Suitable for use as control antibody for PRTFDC1 siRNA (h): sc-90611, PRTFDC1 shRNA Plasmid (h): sc-90611-SH and PRTFDC1 shRNA (h) Lentiviral Particles: sc-90611-V.

Molecular Weight of PRTFDC1: 26 kDa.

Positive Controls: SK-N-SH cell lysate: sc-2410 or Hep G2 cell lysate: sc-2227.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (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.