

Prickle2 (H-70): sc-292448

BACKGROUND

Prickle2 is an 844 amino acid protein that localizes to the nuclear membrane and contains one PET domain and 3 LIM zinc-binding domains. Expressed in testis, brain and eye tissue, as well as in gastric and uterine tumors, Prickle2 may be involved in neurite formation during brain growth and may also be associated with tumor formation and metastasis. The gene encoding Prickle2 maps to human chromosome 3, which houses over 1,100 genes, including a chemokine receptor (CKR) gene cluster and a variety of human cancer-related gene loci. Key tumor suppressing genes on chromosome 3 include those that encode the apoptosis mediator RASSF1, the cell migration regulator HYAL1 and the angiogenesis suppressor SEMA3B. Marfan Syndrome, porphyria, von Hippel-Lindau syndrome, osteogenesis imperfecta and Charcot-Marie-Tooth Disease are a few of the numerous genetic diseases associated with chromosome 3.

REFERENCES

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4. Online Mendelian Inheritance in Man, OMIM™. 2004. Johns Hopkins University, Baltimore, MD. MIM Number: 608501. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
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CHROMOSOMAL LOCATION

Genetic locus: PRICKLE2 (human) mapping to 3p14.1; Prickle2 (mouse) mapping to 6 D1.

SOURCE

Prickle2 (H-70) is a rabbit polyclonal antibody raised against amino acids 382-451 mapping within an internal region of Prickle2 of human origin.

RESEARCH USE

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

PRODUCT

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

APPLICATIONS

Prickle2 (H-70) is recommended for detection of Prickle2 of mouse, rat and human 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).

Prickle2 (H-70) is also recommended for detection of Prickle2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Prickle2 siRNA (h): sc-76249, Prickle2 siRNA (m): sc-76250, Prickle2 shRNA Plasmid (h): sc-76249-SH, Prickle2 shRNA Plasmid (m): sc-76250-SH, Prickle2 shRNA (h) Lentiviral Particles: sc-76249-V and Prickle2 shRNA (m) Lentiviral Particles: sc-76250-V.

Molecular Weight of Prickle2: 96 kDa.

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.

PROTOCOLS

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