

Prickle2 (E-19): sc-69230

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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CHROMOSOMAL LOCATION

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

RESEARCH USE

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

SOURCE

Prickle2 (E-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Prickle2 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-69230 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Prickle2 (E-19) 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), 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 (E-19) 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 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.