

Wnt-5b (S-12): sc-109464

BACKGROUND

The Wnt gene family of proto-oncogenes consists of at least 13 known members which encode secreted signaling proteins that are involved in oncogenesis and several other developmental processes, such as regulation of cell fate and embryogenesis. Wnt-5b (wingless-type MMTV integration site family, member 5B) is a 359 amino acid secreted protein that localizes to the extracellular matrix and belongs to the Wnt family. Thought to function as a signaling molecule, Wnt-5b interacts with PORCN and acts as a ligand for members of the frizzled family of transmembrane receptors, possibly affecting the development of discrete tissue regions. Wnt-5b is expressed in a variety of tissues, including fetal brain, kidney, lung, ovary and small intestine, as well as in gastric cancer and teratocarcinoma cell lines, suggesting a role for Wnt-5b in tumorigenesis.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: WNT5B (human) mapping to 12p13.33; Wnt5b (mouse) mapping to 6 F1.

SOURCE

Wnt-5b (S-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Wnt-5b of human origin.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PRODUCT

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

Blocking peptide available for competition studies, sc-109464 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

APPLICATIONS

Wnt-5b (S-12) is recommended for detection of Wnt-5b 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).

Wnt-5b (S-12) is also recommended for detection of Wnt-5b in additional species, including equine, canine, bovine and avian.

Suitable for use as control antibody for Wnt-5b siRNA (h): sc-95781, Wnt-5b siRNA (m): sc-155357, Wnt-5b shRNA Plasmid (h): sc-95781-SH, Wnt-5b shRNA Plasmid (m): sc-155357-SH, Wnt-5b shRNA (h) Lentiviral Particles: sc-95781-V and Wnt-5b shRNA (m) Lentiviral Particles: sc-155357-V.

Molecular Weight of Wnt-5b: 40 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.

RESEARCH USE

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

PROTOCOLS

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



Try **Wnt-5b (G-4): sc-376249**, our highly recommended monoclonal alternative to Wnt-5b (S-12). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see **Wnt-5b (G-4): sc-376249**.