

# Wnt-6 (N-14): sc-241734

## BACKGROUND

The Wnt family of protooncogenes 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-6 (wingless-type MMTV integration site family, member 6) is a 365 amino acid secreted protein of the extracellular space that acts as a ligand for several members of the frizzled family. A probable developmental protein expressed at high levels in brain and testis, Wnt-6 is thought to play a role in carcinogenesis and interacts with PORCN. Wnt-6 is coexpressed in SW480 and HeLa S3 cells with Wnt-10a, and both proteins are encoded by genes that are tightly clustered on human chromosome 2q35.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: WNT6 (human) mapping to 2q35; Wnt6 (mouse) mapping to 1 C3.

## SOURCE

Wnt-6 (N-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Wnt-6 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-241734 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

Wnt-6 (N-14) is recommended for detection of Wnt-6 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); non cross-reactive with other Wnt family members.

Wnt-6 (N-14) is also recommended for detection of Wnt-6 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Wnt-6 siRNA (h): sc-94607, Wnt-6 siRNA (m): sc-155358, Wnt-6 shRNA Plasmid (h): sc-94607-SH, Wnt-6 shRNA Plasmid (m): sc-155358-SH, Wnt-6 shRNA (h) Lentiviral Particles: sc-94607-V and Wnt-6 shRNA (m) Lentiviral Particles: sc-155358-V.

Molecular Weight of Wnt-6: 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.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.