

WNT5A Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP5682c**Specification**

WNT5A Antibody (Center) Blocking peptide - Product Information

Primary Accession [P41221](#)
Other Accession [NP_003383.2](#)

WNT5A Antibody (Center) Blocking peptide - Additional Information

Gene ID 7474

Other Names

Protein Wnt-5a, WNT5A

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

WNT5A Antibody (Center) Blocking peptide - Protein Information

Name WNT5A

Function

Ligand for members of the frizzled family of seven transmembrane receptors. Can activate or inhibit canonical Wnt signaling, depending on receptor context. In the presence of FZD4, activates beta-catenin signaling. In the presence of ROR2, inhibits the canonical Wnt pathway by promoting beta-catenin degradation through a GSK3-independent pathway which involves down-regulation of beta-catenin-induced reporter gene expression (By similarity). Suppression of the canonical pathway allows chondrogenesis to occur and inhibits tumor formation. Stimulates cell migration. Decreases proliferation, migration, invasiveness and clonogenicity of carcinoma cells and may act as a tumor suppressor (PubMed:15735754). Mediates motility of melanoma cells (PubMed:17426020). Required during embryogenesis for extension of the primary anterior-posterior axis and for outgrowth of limbs and the genital tubercle. Inhibits type II collagen expression in chondrocytes (By similarity).

Cellular Location

Secreted, extracellular space, extracellular matrix. Secreted

Tissue Location

Expression is increased in differentiated thyroid carcinomas compared to normal thyroid tissue and anaplastic thyroid tumors where expression is low or undetectable. Expression is found in thyrocytes but not in stromal cells (at protein level) (PubMed:15735754). Detected in neonate heart and lung (PubMed:8288227)

WNT5A Antibody (Center) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

WNT5A Antibody (Center) Blocking peptide - Images

WNT5A Antibody (Center) Blocking peptide - Background

The WNT gene family consists of structurally related genes which encode secreted signaling proteins. These proteins have been implicated in oncogenesis and in several developmental processes, including regulation of cell fate and patterning during embryogenesis. This gene is a member of the WNT gene family. It encodes a protein which shows 98%, 98% and 87% amino acid identity to the mouse, rat and the xenopus Wnt5A protein, respectively. The experiments performed in *Xenopus laevis* embryos identified that human frizzled-5 (hFz5) is the receptor for the Wnt5A ligand and the Wnt5A/hFz5 signaling mediates axis induction. [provided by RefSeq].

WNT5A Antibody (Center) Blocking peptide - References

He, X., et al. Science 275(5306):1652-1654(1997) Danielson, K.G., et al. J. Biol. Chem. 270(52):31225-31234(1995) Smolich, B.D., et al. Mol. Biol. Cell 4(12):1267-1275(1993) Clark, C.C., et al. Genomics 18(2):249-260(1993)