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WNT4 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6683C

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	P56705
Other Accession	Q9QXQ5, P22724
Reactivity	Human, Mouse, Rat
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	39052
Antigen Region	211-239

Additional Information

Gene ID	54361
Other Names	Protein Wnt-4, WNT4
Target/Specificity	This WNT4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 211-239 amino acids from the Central region of human WNT4.
Dilution	WB~~1:2000 IHC-P~~1:100~500 FC~~1:25 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	WNT4 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	WNT4
Function	Ligand for members of the frizzled family of seven transmembrane receptors (Probable). Plays an important role in the embryonic development of the urogenital tract and the lung (PubMed:15317892, PubMed:16959810,

PubMed:18179883, PubMed:18182450). Required for normal mesenchyme to epithelium transition during embryonic kidney development. Required for the formation of early epithelial renal vesicles during kidney development (By similarity). Required for normal formation of the Mullerian duct in females, and normal levels of oocytes in the ovaries (PubMed:15317892, PubMed:16959810, PubMed:18182450). Required for normal down-regulation of 3 beta-hydroxysteroid dehydrogenase in the ovary (PubMed:15317892, PubMed:16959810, PubMed:18182450). Required for normal lung development and for normal patterning of trachael cartilage rings (By similarity).

Cellular Location Secreted, extracellular space, extracellular matrix

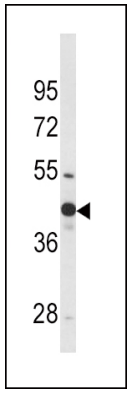
Background

The WNT family consists of secreted signaling proteins. These proteins have been implicated in oncogenesis and in several developmental processes, including regulation of cell fate and patterning during embryogenesis. WNT4 is a protein which shows 98% amino acid identity to the Wnt4 protein of mouse and rat. It play a concerted role in both the control of female development and the prevention of testes formation.

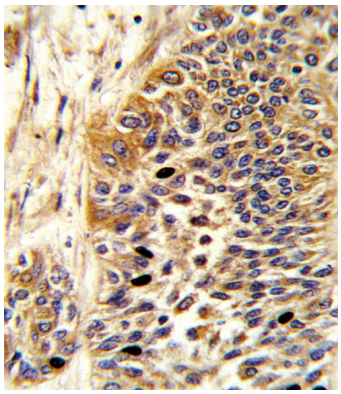
References

Kuulasmaa,T., Horm. Metab. Res. 40 (10), 668-673 (2008)
Miyakoshi,T., Endocr. Pathol. 19 (4), 261-273 (2008)

Images

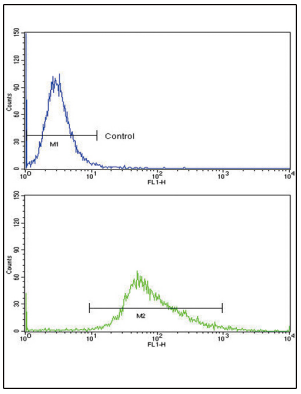


Western blot analysis of WNT4 Antibody (Center) (Cat. #AP6683c) in mouse bladder tissue lysates (35ug/lane).WNT4 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human bladder carcinoma reacted with WNT4 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Flow cytometric analysis of MDA-MB468 cells using WNT4 Antibody (Center)(bottom histogram) compared to a negative control cell (top histogram)FITC-conjugated



goat-anti-rabbit secondary antibodies were used for the analysis.

Citations

- Effects of secreted frizzled-related protein 1 on proliferation, migration, invasion, and apoptosis of colorectal cancer cells.
- Overexpression of miR 214 promotes the progression of human osteosarcoma by regulating the Wnt/β catenin signaling pathway.
- Estimated diversity of messenger RNAs in each murine spermatozoa and their potential function during early zygotic development.