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WNT10B Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1325a

Product Information

Application	WB, IHC, ICC, E
Primary Accession	O00744
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	5A7
Isotype	IgG1
Calculated MW	43000
Description	WNT10B: wingless-type MMTV integration site family, member 10B. The WNT family consists of structurally related secreted signaling proteins. These proteins have been implicated in oncogenesis and in several developmental processes, including regulation of cell fate and patterning during embryogenesis. WNT10B is a member of the WNT gene family. It may be involved in breast cancer, and its protein signaling is ikely a molecular switch that governs adipogenesis. This protein is 96% identical to the mouse Wnt10B protein at the amino acid level. The WNT10B gene is clustered with another family member, WNT1, in the chromosome 12q13 region.
Immunogen	Purified recombinant fragment of human WNT10B expressed in E. Coli.
Formulation	Ascitic fluid containing 0.03% sodium azide.

Additional Information

Gene ID	7480
Other Names	Protein Wnt-10b, Protein Wnt-12, WNT10B, WNT12
Dilution	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 ICC~~N/A E~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	WNT10B Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	WNT10B

Synonyms	WNT12
Function	Member of the Wnt ligand gene family that encodes for secreted proteins, which activate the Wnt signaling cascade. Specifically activates canonical Wnt/beta-catenin signaling and thus triggers beta-catenin/LEF/TCF-mediated transcriptional programs. Involved in signaling networks controlling stemness, pluripotency and cell fate decisions. Acts in the immune system, mammary gland, adipose tissue, bone and skin.
Cellular Location	Secreted, extracellular space, extracellular matrix. Secreted
Tissue Location	Detected in most adult tissues. Highest levels were found in heart and skeletal muscle. Low levels are found in brain

References

1. Oncogene. 1997 Mar 13;14(10):1249-53. 2. Int J Oncol. 2001 Dec;19(6):1187-92

Images

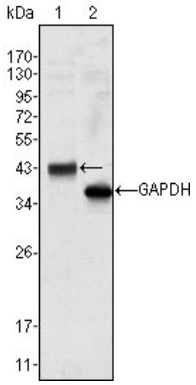

Figure 1: Western blot analysis using WNT10B mouse mAb against Hela cell lysate (1).

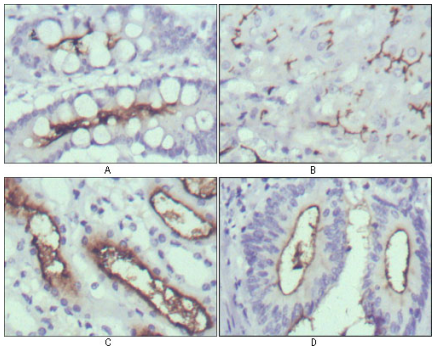

Figure 2: Immunohistochemical analysis of paraffin-embedded human normal stomach (A), normal liver (B), normal kidney (C) and rectum cancer tissues (D) using WNT10B mouse mAb with DAB staining.

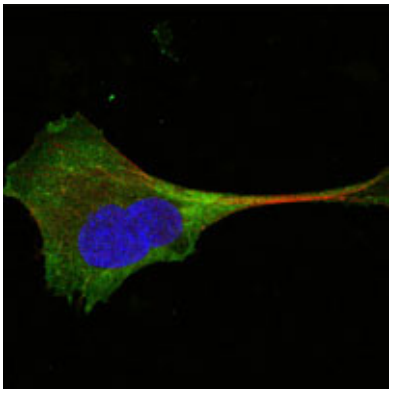

Figure 3: Confocal immunofluorescence analysis of PANC-1 cells using WNT10B mouse mAb (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin. Blue: DRAQ5 fluorescent DNA dye.

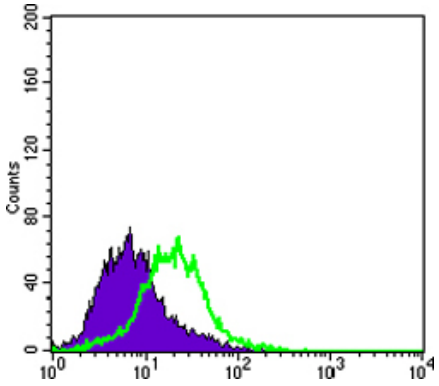

Figure 4: Flow cytometric analysis of PACN-1 cells using KRT15 mouse mAb (green) and negative control (purple).