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WNT10B Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6595B

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	O00744
Other Accession	P48614
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB19661
Calculated MW	43000
Antigen Region	193-222

Additional Information

Gene ID	7480
Other Names	Protein Wnt-10b, Protein Wnt-12, WNT10B, WNT12
Target/Specificity	This WNT10B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 193-222 amino acids from the Central region of human WNT10B.
Dilution	WB~~1:2000 IHC-P~~1:100~500 FC~~1:10~50 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	WNT10B Antibody (Center) 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

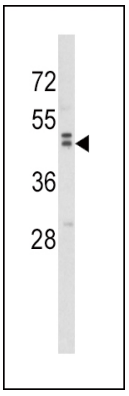
Background

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. WNT10B is a member of the WNT family. It may be involved in breast cancer, and its protein signaling is likely a molecular switch that governs adipogenesis. This protein is 96% identical to the mouse Wnt10b protein at the amino acid level.

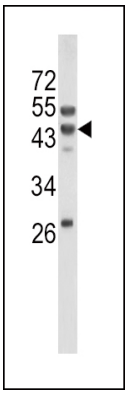
References

Zmuda,J.M., J. Bone Miner. Res. 24 (3), 437-447 (2009)
Pederson,L., Proc. Natl. Acad. Sci. U.S.A. 105 (52), 20764-20769 (2008)

Images

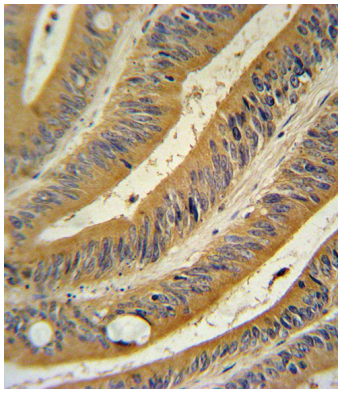


Western blot analysis of WNT10B Antibody (Center) (Cat. #AP6595b) in MDA-MB231 cell line lysates (35ug/lane). WNT10B (arrow) was detected using the purified Pab.

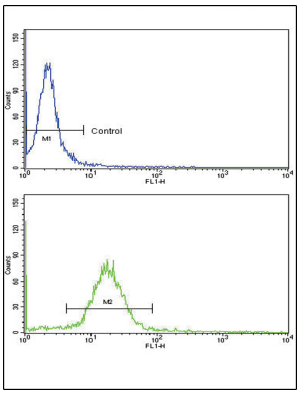


Western blot analysis of WNT10B Antibody (Center) (Cat. #AP6595b) in mouse liver tissue lysates (35ug/lane). WNT10B (arrow) was detected using the purified Pab.

WNT10B Antibody (Center) (Cat. #AP6595b) immunohistochemistry analysis in formalin fixed and paraffin embedded human colon carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the



WNT10B Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



Flow cytometric analysis of MDA-231 cells using WNT10B Antibody (Center)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.