10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Wnt10b Antibody
Catalog # ASC10699

Specification

Wnt10b Antibody - Product Information

Application	**WB, IHC-P, E**
Primary Accession	O00744
Other Accession	NP_003385, 16936522
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Calculated MW	**Predicted: 43 kDa** **Observed: 47 kDa KDa**
Application Notes	**Wnt10b antibody can be used for detection of Wnt10b by Western blot at 2 - 4 µg/mL. Antibody can also be used for immunohistochemistry starting at 2.5 µg/mL.**

Wnt10b Antibody - Additional Information

Gene ID **7480**

Target/Specificity
WNT10B; Two isoforms of Wnt10b are known to exist; this antibody will only recognize the longer isoform. This Wnt10b antibody will not cross-react with Wnt10a.

Reconstitution & Storage
Wnt10b antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Precautions
Wnt10b Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Wnt10b Antibody - 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

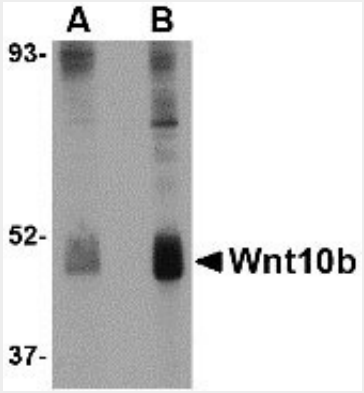
Tissue Location
Detected in most adult tissues. Highest levels were found in heart and skeletal muscle. Low levels are found in brain

Wnt10b Antibody - Protocols

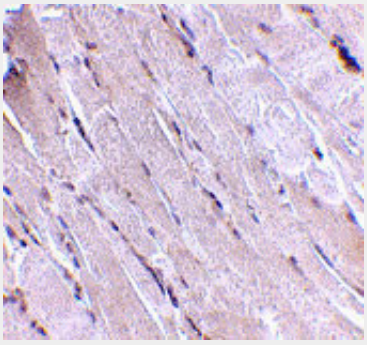
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Wnt10b Antibody - Images



Western blot analysis of Wnt10b in human skeletal muscle tissue lysate with Wnt10b antibody at (A) 2 and (B) 4 µg/mL.



Immunohistochemistry of Wnt10b in human skeletal muscle with Wnt10b antibody at 2.5 µg/mL.

Wnt10b Antibody - Background

Wnt10b Antibody: Wnt10b is a member of the Wnt family, a gene family that encodes secreted signaling proteins that play crucial roles in normal development such as regulation of cell fate and

patterning during embryogenesis as well as neoplastic transformation. Wnt10b is found in the mouse mammary tumor virus insertion site where it is activated and causes mammary tumors. Elevated levels of Wnt10b have also been detected in human breast carcinomas. Wnt10b is known to be involved in adipogenesis, maintaining the preadipocyte in an undifferentiated state. More recently, Wnt10b has been shown to promote epithelial cell differentiation and hair shaft growth, demonstrating that Wnt10b has multiple roles in cell growth and differentiation.

Wnt10b Antibody - References

Lee FS, Lane TF, Kuo A, et al. Insertional mutagenesis identifies a member of the Wnt gene family as a candidate oncogene in the mammary epithelium of int-2/Fgf-3 transgenic mice. Proc. Natl. Acad. Sci. USA1995; 92:2268-72.
Nusse R and Varmus RE. Wnt genes. Cell1992; 69:1073-87.
Bui TD, Rankin J, Smith K, et al. A novel human Wnt gene, WNT10B, maps to 12q13 and is expressed in human breast carcinomas. Oncogene1997; 14:1249-53.
Bennett CN, Hodge CL, MacDougald OA, et al. Role of Wnt10b and C/EBPalpha in spontaneous adipogenesis of 243 cells. Biochem. Biophys. Res. Commun.2003; 302:12-16.