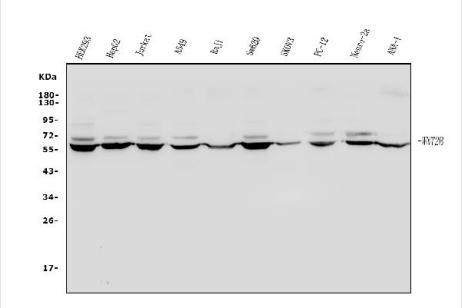
WNT2B Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Wnt2b, Polyclonal Antibody
Full Product Name	Anti-Wnt2b Antibody
Product Gene Name	anti-WNT2B antibody
Product Synonym Names	Protein Wnt-2b; Protein Wnt-13; WNT2B; WNT13; wingless-type MMTV integration site family, member 2B
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Purity/Purification	Immunogen affinity purified.
Specificity	Rabbit IgG polyclonal antibody for Wnt2b detection.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.
Molecular Weight	41,830 Da
OMIM	601968
3D Structure	ModBase 3D Structure for Q93097
Immunogen	E Coli-derived human Wnt2b recombinant protein (Position: A7-T391).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems||Lab recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (MBS176460) for Western blot.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-WNT2B antibody	Western Blot (WB), Direct ELISA (EIA)
Application Notes for anti-WNT2B antibody	WB: 0.25-0.5ug/ml|Human, Mouse, Rat| Direct ELISA: 0.1-0.5ug/ml|Human|
Related Product Information for anti-WNT2B antibody	WNT2B (Wingless-Type MMTV Integration Site Family Member 2B), is a protein that in humans is encoded by the WNT2B gene. This gene encodes a member of the wingless-type MMTV integration site (WNT) family of highly conserved, secreted signaling factors. Katoh et al. (1996) used fluorescence in situ hybridization to map the WNT13 gene to chromosome 1p13. WNT family members function in a variety of developmental processes including regulation of cell growth and differentiation and are characterized by a WNT-core domain. This gene may play a role in human development as well as human carcinogenesis.
Product References and Citations for anti-WNT2B antibody	1. Katoh, M., Hirai, M., Sugimura, T., Terada, M. Cloning, expression and chromosomal localization of Wnt-13, a novel member of the Wnt gene family. Oncogene 13: 873-876, 1996. 2. Ober, E. A., Verkade, H., Field, H. A., Stainier, D. Y. R. Mesodermal Wnt2b signalling positively regulates liver specification. Nature 442: 688-691, 2006. 3. Wolda, S. L., Moon, R. T. Cloning and developmental expression in Xenopus laevis of seven additional members of the Wnt family. Oncogene 7: 1941-1947, 1992.

Other Notes	Small volumes of anti-WNT2B antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for WNT2B purchase	MBS1753675 is an antibody targeting WNT2B. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-WNT2B antibody
Figure 1. Western blot analysis of Wnt2b using anti-Wnt2b antibody (MBS1753675).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: human HEK293 whole cell lysatesLane 2: human HEPG2 whole cell lysatesLane 3: human Jurkat whole cell lysatesLane 4: human A549 whole cell lysatesLane 5: human Raji whole cell lysatesLane 6: human SW620 whole cell lysatesLane 7: human SKOV3 whole cell lysatesLane 8: rat PC-12 whole cell lysatesLane 9: mouse Neuro-2a whole cell lysatesLane 10: mouse ANA-1 whole cell lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with rabbit anti-Wnt2b antigen affinity purified polyclonal antibody (Catalog # MBS1753675) at 0. 5 ?g/mL overnight at 4 degree C, then washed with TBS-0. 1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # MBS176460) with Tanon 5200 system. A specific band was detected for Wnt2b at approximately 60KD. The expected band size for Wnt2b is at 60KD.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for WNT2B. It may not necessarily be applicable to this product.

NCBI GI #	14424481
NCBI GeneID	7482
NCBI Accession #	Q93097.2
UniProt Primary Accession #	Q93097
UniProt Secondary Accession #	O14903; Q5TEH9; Q5TEI2; Q9HDC1; Q9HDC2
UniProt Related Accession #	Q93097
NCBI Official Full Name	Protein Wnt-2b
NCBI Official Synonym Full Names	wingless-type MMTV integration site family, member 2B
NCBI Official Symbol	WNT2B
NCBI Official Synonym Symbols	WNT13
UniProt Protein Name	Protein Wnt-2b
UniProt Synonym Protein Names	Protein Wnt-13
Protein Family	Protein
UniProt Gene Name	WNT2B
UniProt Synonym Gene Names	WNT13

UniProt Entry Name	WNT2B_HUMAN
NCBI Protein Information	protein Wnt-2b; XWNT2, Xenopus, homolog of; wingless-type MMTV integration site family, member 13
NCBI Summary for WNT2B	This gene encodes a member of the wingless-type MMTV integration site (WNT) family of highly conserved, secreted signaling factors. WNT family members function in a variety of developmental processes including regulation of cell growth and differentiation and are characterized by a WNT-core domain. This gene may play a role in human development as well as carcinogenesis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2014]
UniProt Comments for WNT2B	WNT2B: Ligand for members of the frizzled family of seven transmembrane receptors. Probable developmental protein. May be a signaling molecule which affects the development of discrete regions of tissues. Is likely to signal over only few cell diameters. May be involved in normal development or differentiation as well as in carcinogenesis. Belongs to the Wnt family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 1p13 Cellular Component: extracellular space; proteinaceous extracellular matrix; extracellular region Molecular Function: frizzled binding Biological Process: neuron differentiation; lens development in camera-type eye; Wnt receptor signaling pathway; cell fate commitment; male gonad development; chondrocyte differentiation; Wnt receptor signaling pathway through beta-catenin; forebrain regionalization; cellular response to starvation
Research Articles on WNT2B	**1.** secretion of WNT2B and WNT9B and stabilization of beta-catenin (CTNNB1) upon virus infection negatively regulate expression of representative inducible genes IFNB1, IFIT1 and TNF in a CTNNB1-dependent effector mechanism
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