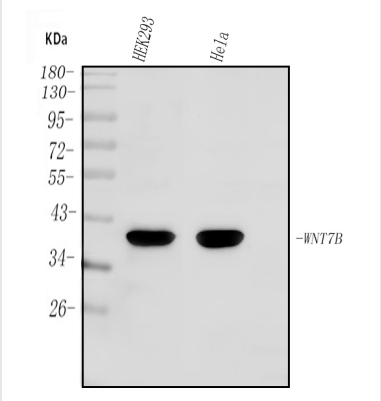
WNT7B Antibody – Rabbit Polyclonal

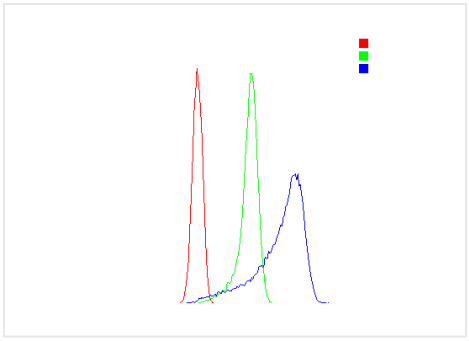
PRODUCT OVERVIEW

Product Name	WNT7B, Polyclonal Antibody
Full Product Name	Anti-WNT7B Antibody
Product Gene Name	anti-WNT7B antibody
Product Synonym Names	WNT7B; Protein Wnt-7b; Wnt family member 7B
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
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 WNT7B 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	39,327 Da
3D Structure	ModBase 3D Structure for P56706
Immunogen	E Coli-derived human WNT7B recombinant protein (Position: K220-D267).
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-WNT7B antibody	Western Blot (WB), Flow Cytometry (FC/FACS/FCM), Direct ELISA (EIA)
Application Notes for anti-WNT7B antibody	WB: 0.25-0.5ug/ml|Human| FC/FACS/FCM: 1-3ug/1x106 cells|Human| Direct ELISA: 0.1-0.5ug/ml|Human|
Related Product Information for anti-WNT7B antibody	Protein Wnt-7b is a protein that in humans is encoded by the WNT7B gene. This gene is a member of the WNT gene family, which consists of structurally related genes that 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. Among members of the human WNT family, this gene product is most similar to WNT7A protein.
Product References and Citations for anti-WNT7B antibody	1. Gavin, B. J., McMahon, J. A., McMahon, A. P. Expression of multiple novel Wnt-1/int-1-related genes during fetal and adult mouse development. Genes Dev. 4: 2319-2332, 1990. 2. Huguet, E. L., McMahon, J. A., McMahon, A. P., Bicknell, R., Harris, A. L. Differential expression of human Wnt genes 2,3,4, and 7B in human breast cell lines and normal and disease states of human breast tissue. Cancer Res. 54: 2615-2621, 1994. 3. Lobov, I. B., Rao, S., Carroll, T. J., Vallance, J. E., Ito, M., Ondr, J. K., Kurup, S., Glass, D. A., Patel, M. S., Shu, W., Morrisey, E. E., McMahon, A. P., Karsenty, G., Lang, R. A. WNT7b mediates macrophage-induced programmed cell death in patterning of the vasculature. Nature 437: 417-421, 2005.

Other Notes	Small volumes of anti-WNT7B 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 WNT7B purchase	MBS1753687 is an antibody targeting WNT7B. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-WNT7B antibody
Figure 1. Western blot analysis of WNT7B using anti-WNT7B antibody (MBS1753687).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 HELA 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-WNT7B antigen affinity purified polyclonal antibody (Catalog # MBS1753687) 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 WNT7B at approximately 39KD. The expected band size for WNT7B is at 39KD.



Flow Cytometry (FC/FACS) of anti-WNT7B antibody
Figure 2. Flow Cytometry analysis of THP-1 cells using anti-WNT7B antibody (MBS1753687).Overlay histogram showing THP-1 cells stained with MBS1753687 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-WNT7B Antibody (MBS1753687, 1?g/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10?g/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1?g/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for WNT7B. It may not necessarily be applicable to this product.

NCBI GI #	15721869
NCBI GeneID	7477
NCBI Accession #	BAB68399.1
UniProt Primary Accession #	P56706
UniProt Secondary Accession #	Q96Q12; B8A596
UniProt Related Accession #	P56706
NCBI Official Full Name	WNT7B
NCBI Official Synonym Full Names	Wnt family member 7B
NCBI Official Symbol	WNT7B
UniProt Protein Name	Protein Wnt-7b
Protein Family	Protein
UniProt Gene Name	WNT7B
NCBI Protein Information	protein Wnt-7b

NCBI Summary for WNT7B	This gene is a member of the WNT gene family, which consists of structurally related genes that 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. Among members of the human WNT family, this gene product is most similar to WNT7A protein. [provided by RefSeq, Oct 2008]
UniProt Comments for WNT7B	Ligand for members of the frizzled family of seven transmembrane receptors. Functions in the canonical Wnt/beta-catenin signaling pathway in vascular smooth muscle cells. Required for normal fusion of the chorion and the allantois during placenta development.
Research Articles on WNT7B	**1.** We identified a novel genome-wide significant association rs10453441 in the WNT7B gene on chromosome 22 as a novel SNP for central corneal thickness in Latinos.
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