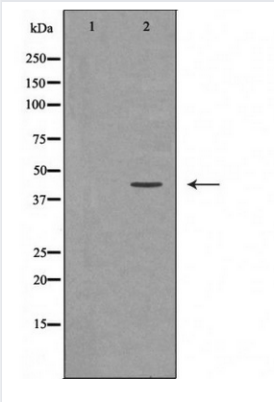
WNT5A Antibody

PRODUCT OVERVIEW

Product Name	Wnt5a, Antibody
Full Product Name	Wnt5a Antibody
Product Gene Name	anti-Wnt5a antibody
Product Synonym Names	hWNT5A
Species Reactivity	Human, Mouse, Rat
Form/Format	In phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Immunogen affinity purified
Specificity	Wnt5a Antibody detects endogenous levels of total Wnt5a
Preparation and Storage	Store at-20 degree C for 1 year
Molecular Weight	42kDa
OMIM	164975
3D Structure	ModBase 3D Structure for P41221
Immunogen	Recombinant protein of human Wnt5a
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-Wnt5a antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-Wnt5a antibody	WB: 1:500-1:2000 IHC: 1:50-1:200
Related Product Information for anti-Wnt5a antibody	The Wnt family includes several secreted glycoproteins that play important roles in animal development (1). There are 19 Wnt genes in the human genome that encode functionally distinct Wnt proteins (2). Wnt members bind to the Frizzled family of seven-pass transmembrane proteins and activate several signaling pathways (3). The canonical Wnt/beta-catenin pathway also requires a coreceptor from the low-density lipoprotein receptor family (4). Aberrant activation of Wnt signaling pathways is involved in several types of cancers (5).
Other Notes	Small volumes of anti-Wnt5a 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 Wnt5a purchase	MBS8516326 is an antibody targeting Wnt5a. Also known as Wnt5a Antibody. Reactive in Human, Mouse, Rat.



Western Blot (WB) of anti-Wnt5a antibody
Western blot analysis of extracts of mouse heart cell lines, using Wnt5a antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Wnt5a. It may not necessarily be applicable to this product.

NCBI GI #	371502087
NCBI GeneID	7474
NCBI Accession #	NP_001243034.1
UniProt Primary Accession #	P41221
UniProt Secondary Accession #	Q6P278; A8K4A4
UniProt Related Accession #	P41221
GenBank Nucleotide #	NM_001256105.1
NCBI Official Full Name	protein Wnt-5a isoform 2
NCBI Official Synonym Full Names	Wnt family member 5A
NCBI Official Symbol	WNT5A
NCBI Official Synonym Symbols	hWNT5A
UniProt Protein Name	Protein Wnt-5a
Protein Family	Protein
UniProt Gene Name	WNT5A
NCBI Protein Information	protein Wnt-5a
NCBI Summary for Wnt5a	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. This gene encodes a member of the WNT family that signals through both the canonical and non-canonical WNT pathways. This protein is a ligand for the seven transmembrane receptor frizzled-5 and the tyrosine kinase orphan receptor 2. This protein plays an essential role in regulating developmental pathways during embryogenesis. This protein may also play a role in oncogenesis. Mutations in this gene are the cause of autosomal dominant Robinow syndrome. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jan 2012]

UniProt Comments for Wnt5a	Ligand for members of the frizzled family of seven transmembrane receptors. Can activate or inhibit canonical Wnt signaling, depending on receptor context. In the presence of FZD4, activates beta-catenin signaling. In the presence of ROR2, inhibits the canonical Wnt pathway by promoting beta-catenin degradation through a GSK3-independent pathway which involves down-regulation of beta-catenin-induced reporter gene expression (). Suppression of the canonical pathway allows chondrogenesis to occur and inhibits tumor formation. Stimulates cell migration. Decreases proliferation, migration, invasiveness and clonogenicity of carcinoma cells and may act as a tumor suppressor (PubMed:15735754). Mediates motility of melanoma cells (PubMed:17426020). Required during embryogenesis for extension of the primary anterior-posterior axis and for outgrowth of limbs and the genital tubercle. Inhibits type II collagen expression in chondrocytes ().
Research Articles on Wnt5a	**1.** These findings suggest that WNT-5A modulates fundamental mechanisms that affect airway smooth muscle contraction and thus may be of relevance for airway hyperresponsiveness in asthma.
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