WNT3 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	Wnt3, Monoclonal Antibody
Full Product Name	Anti-Wnt3 Mouse mAb
Product Gene Name	anti-Wnt3 antibody
Product Synonym Names	Int 4; INT4; MGC131950; MGC138321; MGC138323; Proto-oncogene Int-4 homolog; Proto-oncogene Wnt-3; wingless type MMTV integration site family member 3; Wnt 3 proto oncogene protein; WNT 3 proto oncogene protein precursor; wnt3; WNT3_HUMAN.
Clonality	Monoclonal
Isotype	lgG1
Clone Number	4F11-H1-F4
Host	Mouse
Purity/Purification	Affinity purified
Preparation and Storage	Aliquot and store at-20 degree C. Avoid repeated freeze/thaw cycles.
Molecular Weight	40
OMIM	165330
3D Structure	ModBase 3D Structure for P56703
Immunogen	Purified recombinant human Wnt3 protein fragments expressed in E Coli.
Storage Buffer	PBS (pH 7.4) containing 0.03% Proclin300 and 50% glycerol.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-Wnt3 antibody	Western Blot (WB)
Related Product Information for anti-Wnt3 antibody	Ligand for members of the frizzled family of seven transmembrane receptors. Wnt-3 and Wnt-3a play distinct roles in cell-cell signaling during morphogenesis of the developing neural tube.
Other Notes	Small volumes of anti-Wnt3 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 Wnt3 purchase	MBS8533194 is an antibody targeting Wnt3. Also known as Anti-Wnt3 Mouse mAb. Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Wnt3. It may not necessarily be applicable to this product.

NCBI GI #	13540477
NCBI GeneID	7473
NCBI Accession #	NP_110380.1
UniProt Primary Accession #	P56703
UniProt Secondary Accession #	Q2M237; Q9H1J9

UniProt Related Accession #	P56703
GenBank Nucleotide #	NM_030753
NCBI Official Full Name	proto-oncogene Wnt-3
NCBI Official Synonym Full Names	Wnt family member 3
NCBI Official Symbol	WNT3
NCBI Official Synonym Symbols	INT4; TETAMS
UniProt Protein Name	Proto-oncogene Wnt-3
UniProt Synonym Protein Names	Proto-oncogene Int-4 homolog
Protein Family	Proto-oncogene
UniProt Gene Name	WNT3
UniProt Synonym Gene Names	INT4
NCBI Protein Information	proto-oncogene Wnt-3
NCBI Summary for Wnt3	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 is a member of the WNT gene family. It encodes a protein which shows 98% amino acid identity to mouse Wnt3 protein, and 84% to human WNT3A protein, another WNT gene product. The mouse studies show the requirement of Wnt3 in primary axis formation in the mouse. Studies of the gene expression suggest that this gene may play a key role in some cases of human breast, rectal, lung, and gastric cancer through activation of the WNT-beta-catenin-TCF signaling pathway. This gene is clustered with WNT15, another family member, in the chromosome 17q21 region. [provided by RefSeq, Jul 2008]
UniProt Comments for Wnt3	Ligand for members of the frizzled family of seven transmembrane receptors (Probable). Functions in the canonical Wnt signaling pathway that results in activation of transcription factors of the TCF/LEF family (PubMed:26902720). Required for normal gastrulation, formation of the primitive streak, and for the formation of the mesoderm during early embryogenesis. Required for normal formation of the apical ectodermal ridge (). Required for normal embryonic development, and especially for limb development (PubMed:14872406).
Research Articles on Wnt3	**1.** Our data demonstrated an important interdependence between TGF-beta and Wnt/beta-catenin pathways inducing EMT in HER2-overexpressing breast cancer cells. Twist served as a linkage between the two pathways during TGF-beta-induced EMT. A83-01 could inhibit the TGF-beta-initiated pathway interactions and enhance HER2-cells response to trastuzumab treatment
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