Anti-Wnt1 (RABBIT) Antibody - 600-401-A37

Code: 600-401-A37 **Size:** 100 µg

Product Description: Anti-Wnt1 (RABBIT) Antibody - 600-401-A37

Concentration: 1.0 mg/mL by UV absorbance at 280 nm

PhysicalState: Liquid (sterile filtered)

Label	Unconjugated
Host	Rabbit
Gene Name	WNT1
Species Reactivity	mouse, human, rat, bovine, dog, macaque, opossum
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Stabilizer	None
Preservative	0.01% (w/v) Sodium Azide
Storage Condition	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Synonyms	rabbit anti-WNT-1 antibody, rabbit anti-WNT1 antibody, INT1 antibody, Murine mammary tumor virus integration site 1 antibody, Oncogene INT1 antibody, Proto oncogene protein Wnt 1 antibody, Wingless type MMTV integration site family member 1 antibody
Application Note	This affinity purified antibody has been tested for use in ELISA and western blotting.
Background	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. Wnt1 (Wingless-type MMTV integration site family member 1) is a member of the WNT gene family. It is highly conserved in evolution and the protein encoded by this gene is known to be 98% identical to mouse Wnt1 protein at the amino acid level. Studies in mouse indicate that the Wnt1 protein functions in the induction of the mesencephalon and cerebellum. This gene was originally considered as a candidate gene for Joubert syndrome, an autosomal recessive disorder with cerebellar hypoplasia as a leading feature. However, further studies suggested that the gene mutations might not have a significant role in Joubert syndrome. Wnt1 is secreted as an extracellular matrix protein.
Purity And Specificity	This product was affinity purified from monospecific antiserum by immunoaffinity chromatography. This antibody reacts with human and mouse Wnt1 protein. A BLAST analysis was used to suggest cross-reactivity with Wnt1 from mouse, human, rat, bovine, dog, macaque, and opossum based on a 100% homology with the immunizing sequence. Partial cross-reactivity is expected against chicken Wnt1 based on a 91% sequence homology. Cross-reactivity with Wnt1 from other sources has not been determined.
Assay Dilutions	User Optimized
ELISA	1:25,000
Western Blot	1:1,500 - 1:6,000
Other Assays	User Optimized
Expiration	Expiration date is one (1) year from date of opening.
Immunogen	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal region of human Wnt1 protein.
General Reference	De Ferrari,G.V. and Moon,R.T. (2006) The ups and downs of Wnt signaling in prevalent neurological disorders. Oncogene 25 (57), 7545-7553. Yook,J.I., Li,X.Y., Ota,I., Hu,C., Kim,H.S., Kim,N.H., Cha,S.Y., Ryu,J.K., Choi,Y.J., Kim,J., Fearon,E.R. and Weiss,S.J. (2006) A Wnt-Axin2-GSK3beta cascade regulates Snail1 activity in breast cancer cells. Nat. Cell Biol. 8 (12), 1398-1406. He,J., Sheng,T., Stelter,A.A., Li,C., Zhang,X., Sinha,M., Luxon,B.A. and Xie,J. (2006) Suppressing Wnt signaling by the hedgehog pathway through sFRP-1. J. Biol. Chem. 281 (47), 35598-35602. Tell,S., Yi,H., Jockovich,M.E., Murray,T.G. and Hackam,A.S. (2006) The Wnt signaling pathway has tumor suppressor properties in retinoblastoma. Biochem. Biophys. Res. Commun. 349 (1), 261-269. Sievers,S., Fritzsch,C., Grzegorczyk,M., Kuhnen,C. and Muller,O. (2006) Absolute beta-catenin concentrations in Wnt pathway-stimulated and non-stimulated cells. Biomarkers 11 (3), 270-278.
Specific Reference	Banon-Maneus E, Rovira J, Ramirez-Bajo MJ, Moya-Rull D, Hierro-Garcia N, Takenaka S, Diekmann F, Eickelberg O, Königshoff M, Campistol JM. (2014) Wnt pathway activation in long term remnant rat model. Biomed Res Int. 2014;2014:324713. doi: 10.1155/2014/324713. Epub 2014 Jun 5.

Related Products

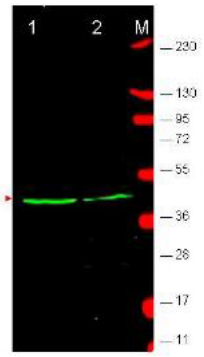
100-401-223	Anti-Gli1 (RABBIT) Antibody - 100-401-223
200-301-268	Anti-AKT pS473 (MOUSE) Monoclonal Antibody - 200-301-268
600-401-424	Anti-GSK3 beta pS9 (RABBIT) Antibody - 600-401-424
600-401-429	Anti-GSK3 alpha pS21 (RABBIT) Antibody - 600-401-429

Related Links

	UniProtKB - P04628
http://www.uniprot.org/uniprot/P04628	
NCBI - 4885655	http://www.ncbi.nlm.nih.gov/protein/4885655
	GeneID - 7471

Images

1	Western blot using Rockland's affinity purified anti-Wnt1 antibody shows detection of endogenous Wnt1 in human-derived MCF7 cell lysate (lane 1) and mouse-derived 3T3 cell lysate (lane 2). The band at ~41 kDa, indicated by the arrowhead, corresponds to Wnt1. After transfer, the membrane was blocked with 5% BLOTTO. Primary antibody was used at a 1:1,400 dilution in PBS containing 1% BLOTTO. The specificity of the antibody was confirmed by peptide competition which completely blocked reaction of the antibody with Wnt1 (data not shown).



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