Datasheet for ABIN233837

anti-WNT1 antibody (Internal Region)

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Overview

Quantity:	100 µg
Target:	WNT1
Binding Specificity:	Internal Region
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	Wnt1 Antibody
Immunogen:	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. Immunogen Type: Conjugated Peptide
Isotype:	IgG
Cross-Reactivity (Details):	This antibody reacts with human and mouse Wnt1 protein.
Characteristics:	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
Purification:	This product was affinity purified from monospecific antiserum by immunoaffinity chromatography.

Product Details

Sterility:	Sterile filtered

Target Details

Target:	WNT1
Alternative Name:	WNT1 (WNT1 Products)
Background:	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.
Gene ID:	7471, 4885655
UniProt:	P04628
Pathways:	WNT Signaling, Dopaminergic Neurogenesis

Application Details

Application Notes:	Application Note: This affinity purified antibody has been tested for use in ELISA and western blotting. Western Blot Dilution: 1:1,500 - 1:6,000 ELISA Dilution: 1:25,000 Other: User Optimized
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1.38 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

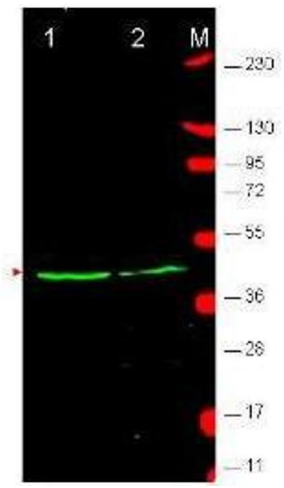
Handling

	Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	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.
Expiry Date:	12 months

Publications

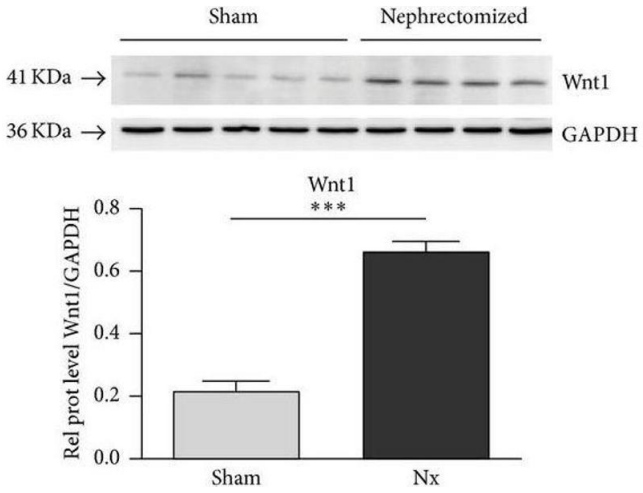
Product cited in:	Banon-Maneus, Rovira, Ramirez-Bajo, Moya-Rull, Hierro-Garcia, Takenaka, Diekmann, Eickelberg, Königshoff, Campistol: "Wnt pathway activation in long term remnant rat model." in: **BioMed research international**, Vol. 2014, pp. 324713, (2015) (PubMed).

Images



Western Blotting

Image 1. Western blot using 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).



Western Blotting

Image 2. Expression of Wnt1 in kidney homogenates of sham and nephrectomized rats. The expression of Wnt1 in kidney homogenates of sham and nephrectomized rats 18 weeks after the surgery was analyzed by immunoblotting. Blotting of GDPH served as loading control. Results are derived from 4-5 animals per group. - figure provided by CiteAb. Source: PMID24995284