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Product datasheet for TA396757S

WNT1 Mouse Monoclonal Antibody [Clone ID: 13F9]

Product data:

Product Type:	Primary Antibodies
Clone Name:	13F9
Applications:	ELISA, WB
Recommended Dilution:	**WB**: 1:175 - 1:250 **ELISA**: 1:4,000 - 1:20,000
Reactivity:	Mouse
Host:	Mouse
Isotype:	IgG1, kappa
Clonality:	Monoclonal
Immunogen:	Synthetic peptide corresponding to an internal region of human Wnt1 protein
Specificity:	Anti-Wnt1 antibody purified from tissue culture supernatant by Protein-A chromatography followed by extensive dialysis against the buffer stated above. 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, opossum and rat 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.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	1.0 mg/mL - lot specific
Conjugation:	Unconjugated
Storage:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Stability:	Expiration date is three (3) months from date of receipt.
Gene Name:	Wnt family member 1

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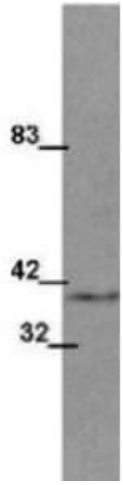
Database Link: P04628

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.

Synonyms: mouse anti-WNT1 antibody, INT1, Proto-oncogene protein Wnt-1

Note: This affinity purified antibody has been tested for use in western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 41 kDa in size corresponding to Wnt1 by western blotting in the appropriate cell lysate or extract.

Product images:



Western blot using Rockland's protein-A purified anti-Wnt1 monoclonal antibody shows detection of Wnt1 protein in mouse testis lysate. The results show specific binding corresponding to the ~41 kDa Wnt1 protein. Primary antibody was used at a 1:500 dilution. Personal communication, Stephen Brown, Brown University