

**Wnt-1 Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ABV10421****Specification**

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**Wnt-1 Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB                     |
| Primary Accession | <a href="#">P04628</a> |
| Reactivity        | Human                  |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Isotype           | Rabbit IgG             |
| Calculated MW     | 40982                  |

**Wnt-1 Antibody - Additional Information****Gene ID** 7471

|                     |   |
|---------------------|---|
| Application & Usage | Western blotting (0.5-4 µg/ml),<br>Immunohistochemistry (10-20 µg/ml).<br>However, the optimal concentrations<br>should be determined individually. The<br>antibody recognizes 41kDa of human<br>Wnt-1. Reactivity to other species has not<br>been tested. |
|---------------------|---|

**Other Names**

wnt1, wnt 1, wnt-1, INT 1 , INT1, wingless type MMTV integration site family member 1

**Target/Specificity**

Wnt-1

**Antibody Form**

Liquid

**Appearance**

Colorless liquid

**Formulation**

100 µg (0.5 mg/ml) affinity purified rabbit Wnt-1 polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.5% BSA, and 0.01% thimerosal.

**Handling**

The antibody solution should be gently mixed before use.

**Reconstitution & Storage**

-20 °C

**Background Descriptions**

**Precautions**

Wnt-1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Wnt-1 Antibody - Protein Information**

**Name** WNT1

**Synonyms** INT1

**Function**

Ligand for members of the frizzled family of seven transmembrane receptors (Probable). Acts in the canonical Wnt signaling pathway by promoting beta-catenin-dependent transcriptional activation (PubMed:<a href="http://www.uniprot.org/citations/23499309" target="\_blank">23499309</a>, PubMed:<a href="http://www.uniprot.org/citations/26902720" target="\_blank">26902720</a>, PubMed:<a href="http://www.uniprot.org/citations/28528193" target="\_blank">28528193</a>, PubMed:<a href="http://www.uniprot.org/citations/23656646" target="\_blank">23656646</a>). In some developmental processes, is also a ligand for the coreceptor RYK, thus triggering Wnt signaling (By similarity). Plays an essential role in the development of the embryonic brain and central nervous system (CNS) (By similarity). Has a role in osteoblast function, bone development and bone homeostasis (PubMed:<a href="http://www.uniprot.org/citations/23499309" target="\_blank">23499309</a>, PubMed:<a href="http://www.uniprot.org/citations/23656646" target="\_blank">23656646</a>).

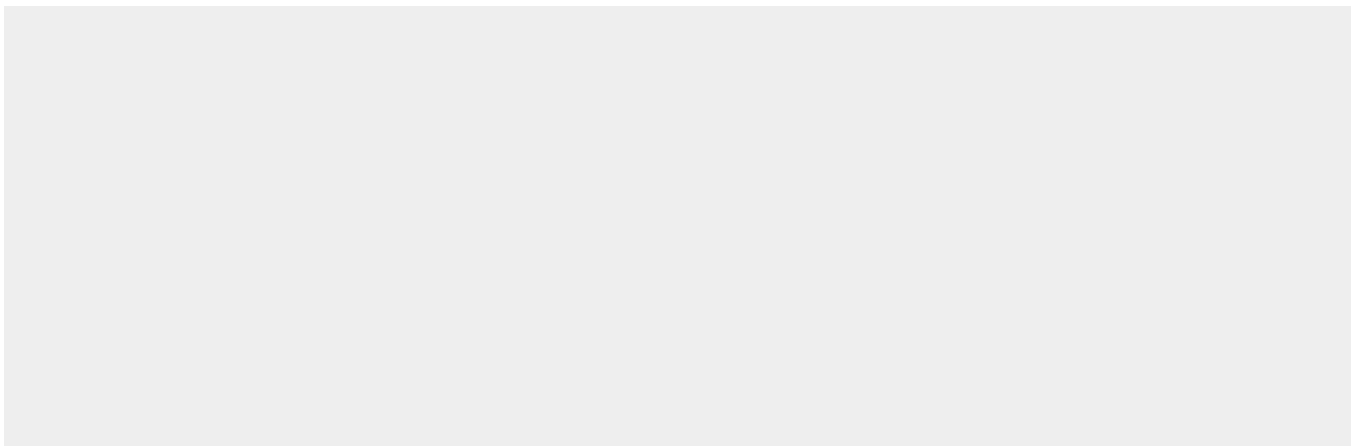
**Cellular Location**

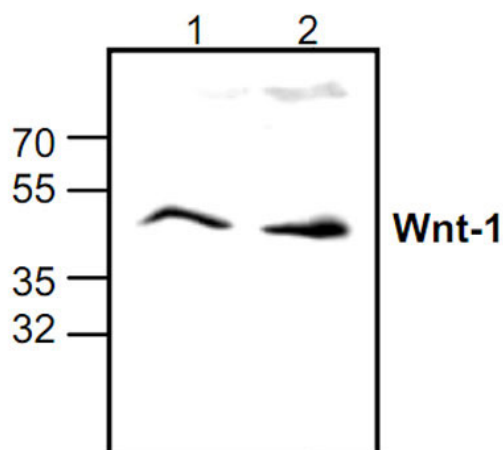
Secreted, extracellular space, extracellular matrix. Secreted

**Wnt-1 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Wnt-1 Antibody - Images**



Western blot analysis of Wnt-1 expression in Jurkat cell lysates (Lane 1, 2).

#### **Wnt-1 Antibody - Background**

Wnt gene family members, including Wnt-1 through Wnt-10, play a key role in regulating cellular growth and differentiation. Wnt-1 is a cysteine-rich, secreted glycoprotein that associates with cell membranes and likely functions as a key regulator of cellular adhesion. Wnt-1, which is essential for normal development of the embryonic nervous system, contributes to hyperplasia and tumorigenic progression when improperly expressed in mammary tissue. Wnt-3 is also involved in tumorigenesis and Wnt-2 and Wnt-4 may be associated with abnormal proliferation in human breast tissue. Wnt-1, Wnt-3 and Wnt-10b have been implicated along with FGF-3 in the development of mouse mammary tumor virus induced mouse mammary carcinomas.