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3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

# Anti-Wnt1 Antibody Picoband®

**Catalog Number:** PB9460

## About WNT1

Wingless-type MMIV integration site family, member 1 is a protein that in humans is encoded by the WNT1 gene. This gene is a member of the WNT gene family. The gene was assigned to human chromosome 12q13.12. The WNT gene family consists of structurally related genes that encode secreted signaling proteins. The Wnt1 protein functions in the induction of the mesencephalon and cerebellum. However, the gene mutations might not have a significant role in Joubert syndrome.

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## Overview

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| Product Name | Anti-Wnt1 Antibody Picoband® |
| Reactive Species | Human, Mouse, Rat |
| Description | Boster Bio Anti-Wnt1 Antibody Picoband® catalog # PB9460. Tested in WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance. |
| Application | WB |
| Clonality | Polyclonal |
| Formulation | Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4. |
| Storage Instructions | Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles. |
| Host | Rabbit |
| Uniprot ID | P04628 |

## Technical Details

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| Immunogen | A synthetic peptide corresponding to a sequence at the N-terminus of human Wnt1, identical to the related mouse and rat sequences. |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western |

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|---|---|
| | blot. |
| Cross Reactivity | No cross-reactivity with other proteins |
| Isotype | Rabbit IgG |
| Form | Lyophilized |
| Concentration | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. |
| Purification | Immunogen affinity purified. |
| Suggested Dilutions | Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat |

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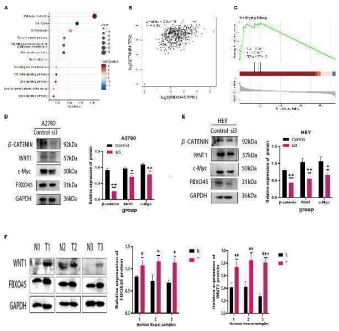
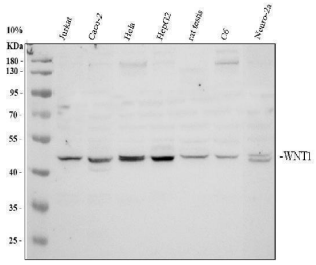
# Anti-Wnt1 Antibody Picoband® (PB9460) Images



FBXO45 activates the Wnt/beta-catenin signaling pathway. (A) KEGG enrichment analysis. (B) Pearson correlation analysis revealing the relationship between FBXO45 and beta-catenin. (C) GSEA of the FBXO45 and Wnt/beta-catenin signaling pathway. (D, E) Western blot analysis assessing the impact of FBXO45 knockdown on key proteins in the Wnt/beta-Catenin pathway in A2780 and HEY cells. (F) Western blot analysis of FBXO45 and WNT1 expression in three normal ovarian tissues and three OV tissues, accompanied by statistical analysis (* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$).Index in PubMed under a CC BY license. PMID: 40990020




Western blot analysis of Wnt1 using anti-Wnt1 antibody (PB9460). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Jurkat whole cell lysates, Lane 2: human CACO-2 whole cell lysates, Lane 3: human Hela whole cell lysates, Lane 4: human HepG2 whole cell lysates, Lane 5: rat testis tissue lysates, Lane 6: rat C6 whole cell lysates, Lane 7: mouse Neuro-2a whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Wnt1 antigen affinity purified polyclonal antibody (PB9460) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054) at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for Wnt1 at approximately 45 kDa. The expected band size for Wnt1 is at 41 kDa.

# 3 Publications Citing This Product

1. PubMed ID: 25529604, Mi L, Li Y, Zhang Q, Zhao C, Peng Y, Yang G, Zheng X. Biochem Cell Biol. 2015 Feb;93(1):8-15. Doi: 10.1139/Bcb-2014-0079. Epub 2014 Sep 2. Microrna-139-5P Regulates C2C12 Cell Myogenesis Through Blocking Wnt/??-Catenin Signaling Pathway.

2. PubMed ID: 25435937, Dong L, Duan Xc, Han Cx, Zhang H, Wu Y. Oncol Lett. 2015 Jan;9(1):81-85. Epub 2014 Oct 30. Suppression Of Wingless-Type Mmtv Integration Site Family, Member 1 Expression By Small Interfering Rna Inhibits U251 Glioma Cell Growth In Vitro.

3. PubMed ID: 26707142, MicroRNA-148a inhibits breast cancer migration and invasion by directly targeting WNT-1

Visit bosterbio.com/anti-wnt1-picoband-trade-antibody-pb9460-boster.html to see all 3 publications.

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