

Anti-Wnt5a Antibody Picoband®

Catalog Number: PB9063

About WNT5A

Protein Wnt-5a is a protein that in humans is encoded by the WNT5A gene. This gene is a member of the WNT gene family. The WNTs comprise a large class of secreted proteins that control essential developmental processes such as embryonic patterning, cell growth, migration, and differentiation. It is mapped to 3p14.3. WNT5A is highly expressed in the dermal papilla of depilated skin. This protein plays an essential role in regulating developmental pathways during embryogenesis. And this protein may also play a role in oncogenesis. WNT5A and DVL can promote axon differentiation mediated by the PAR3-PAR6-aPKC complex.

Overview

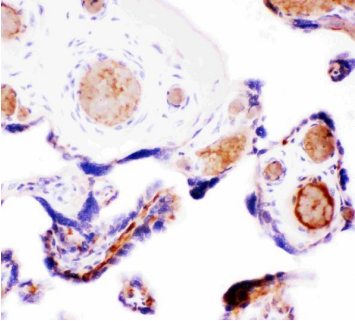
Product Name	Anti-Wnt5a Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Wnt5a Antibody Picoband® catalog # PB9063. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior 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	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , and 0.05 mg NaN ₃ . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
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	P41221

Technical Details

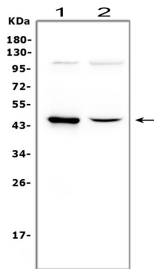
Immunogen	E.coli-derived human Wnt5a recombinant protein (Position: D184-D303). Human Wnt5a shares 100% amino acid (aa) sequence identity with both mouse and rat Wnt5a.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).

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	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Mouse, Rat Western blot, 0.1-0.5ug/ml, Human, Rat, Mouse

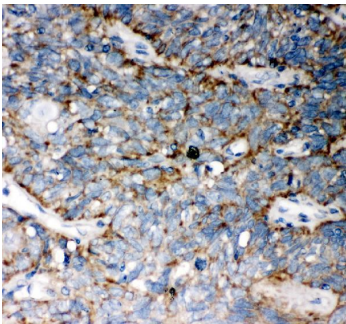
Anti-Wnt5a Antibody Picoband® (PB9063) Images



IHC analysis of Wnt5a using anti-Wnt5a antibody (PB9063). Wnt5a was detected in a paraffin-embedded section of human placenta tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 ug/ml rabbit anti-Wnt5a Antibody (PB9063) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.



Western blot analysis of Wnt5a using anti-Wnt5a antibody (PB9063). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human Hela whole cell lysate, Lane 2: human PC-3 whole cell lysate. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-Wnt5a antigen affinity purified polyclonal antibody (Catalog # PB9063) 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 at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Wnt5a at approximately 45KD. The expected band size for Wnt5a is at 42KD.



IHC analysis of Wnt5a using anti-Wnt5a antibody (PB9063). Wnt5a was detected in a paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 ug/ml rabbit anti-Wnt5a Antibody (PB9063) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

2 Publications Citing This Product

1. PubMed ID: 10.1007/s11255-016-1291-2, Aberrant activation of Wnt pathways in arteries associates with vascular calcification in chronic kidney disease

2. PubMed ID: , Osteogenesis potential of different titania nanotubes in oxidative stress microenvironment

Visit bosterbio.com/anti-wnt5a-picoband-trade-antibody-pb9063-boster.html to see all 2 publications.

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Anti-Wnt5a Antibody

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