

Anti-BMP4 Antibody Picoband™

Catalog Number: A00321

About BMP4

Bone morphogenetic protein 4 is a protein that in humans is encoded by BMP4 gene. It is found on chromosome 14q22-q23. The protein encoded by this gene is a member of the bone morphogenetic protein family which is part of the transforming growth factor-beta superfamily. The superfamily includes large families of growth and differentiation factors. Bone morphogenetic proteins were originally identified by an ability of demineralized bone extract to induce endochondral osteogenesis in vivo in an extraskelatal site. This particular family member plays an important role in the onset of endochondral bone formation in humans, and a reduction in expression has been associated with a variety of bone diseases, including the heritable disorder Fibrodysplasia Ossificans Progressiva. Alternative splicing in the 5' untranslated region of this gene has been described and three variants are described, all encoding an identical protein.

Overview

Product Name	Anti-BMP4 Antibody Picoband™
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-BMP4 Antibody Picoband™ catalog # A00321. Tested in WB applications. This antibody reacts with Human, Mouse, Rat.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
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	BMP4: P12644

Technical Details

Immunogen	E. coli-derived human BMP4 recombinant protein (Position: S293-R408).
Predicted Reactive Species	Chicken
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western 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	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml</p>

Anti-BMP4 Antibody Picoband™ (A00321) Images



Figure 1. Western blot analysis of BMP4 using anti-BMP4 antibody (A00321). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. Lane 1: recombinant human BMP4 protein 1ng. 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-BMP4 antigen affinity purified polyclonal antibody (Catalog # A00321) at 0.5 ug/mL overnight at 4 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 BMP4 at approximately 22KD. The expected band size for BMP4 is at 13KD.

2 Publications Citing This Product

1. PubMed ID: 10.1080/00365520902998661, Acid and bile salt up-regulate BMP4 expression in human esophageal epithelium cells
2. PubMed ID: 25709905, Wang Q, Xue MI, Zhao Gq, Liu Mg, Ma Yn, Ma Y. Int J Ophthalmol. 2015 Feb 18;8(1):39-45. Doi: 10.3980/J.Issn.2222-3959.2015.01.07. Ecollection 2015. Form-Deprivation Myopia Induces Decreased Expression Of Bone Morphogenetic Protein-2, 5 In Guinea P...

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