BOSTER BIOLOGICAL TECHNOLOGY
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888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-CD105/Eng Antibody Picoband®

Catalog Number: A02997-2

About Eng

Endoglin (Osler-Rendu-Weber syndrome 1), CD105, is a type I membrane glycoprotein located on cell surfaces and is a part of the TGF beta receptor complex. Its gene is mapped to human chromosome 8. The protein consists of a homodimer of 180 kDA with disulfide links. It has been found on endothelial cells, activated macrophages, fibroblasts and smooth muscle cells. Endoglin has a role in the development of the cardiovascular system and in vascular remodeling and has been found to be elevated in pregnant women who subsequently develop preeclampsia.

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Overview

Product Name	Anti-CD105/Eng Antibody Picoband®
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-CD105/Eng Antibody Picoband® catalog # A02997-2. Tested in ELISA, IHC, WB applications. This antibody reacts with 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	ELISA, IHC, 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	Q63961

Technical Details

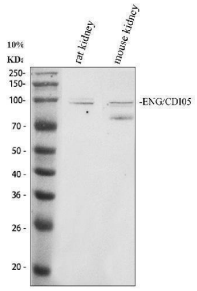
Immunogen	E. coli-derived mouse CD105 recombinant protein (Position: E27-L226).
Recommended Detection Systems	Boster recommends ECL Plus Western Blotting Substrate (Catalog # AR1196-200) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).

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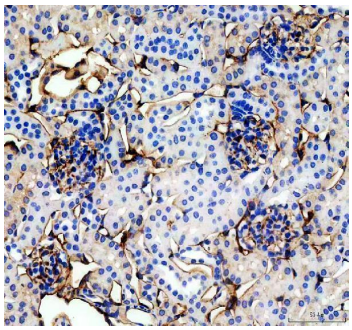
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 2-5ug/ml, Mouse ELISA, 0.1-0.5ug/ml, -

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Anti-CD105/Eng Antibody Picoband® (A02997-2) Images



Western blot analysis of CD105 using anti-CD105 antibody (A02997-2). 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: rat kidney tissue lysates, Lane 2: mouse kidney tissue 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-CD105 antigen affinity purified polyclonal antibody (A02997-2) 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 1:5000 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 CD105 at approximately 95 kDa. The expected band size for CD105 is at 70 kDa.



IHC analysis of CD105 using anti-CD105 antibody (A02997-2). CD105 was detected in a paraffin-embedded section of mouse kidney 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 2 ug/ml rabbit anti-CD105 Antibody (A02997-2) 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.

10 Publications Citing This Product

1. PubMed ID: , Engineering Stem Cell Derived Biomimetic Vesicles for Versatility and Effective Targeted Delivery

2. PubMed ID: -, Wu,H.,Jiang,X.,Li,Y.,Zhou,Y.,Zhang,T.,Zhi,P.,Gao,J.,Engineering Stem Cell Derived Biomimetic Vesicles for Versatility and Effective Targeted Delivery.Adv. Funct.Mater.2020, 30, 2006169.https://doi.org/10.1002/adfm.202006169

3. PubMed ID: 24339730, Dai J, Li Y, Zhou H, Chen J, Chen M, Xiao Z. Int J Biol Sci. 2013 Nov 21;9(10):1089-98. Doi: 10.7150/Ijbs.7367. Ecollection 2013. Genistein Promotion Of Osteogenic Differentiation Through Bmp2/Smad5/Runx2 Signaling.

Visit bosterbio.com/anti-cd105-picoband-trade-antibody-a02997-2-boster.html to see all 10 publications.

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