

Anti-CD105/ENG Antibody

Catalog Number: PA1395

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.

Overview

Product Name	Anti-CD105/ENG Antibody
Reactive Species	Human
Description	Boster Bio Anti-CD105/ENG Antibody catalog # PA1395. Tested in IHC, WB applications. This antibody reacts with Human.
Application	IHC, WB
Clonality	Polyclonal G9
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 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	P17813

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human CD105.
Predicted Reactive Species	Canine, Rabbit
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
Form	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this

kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

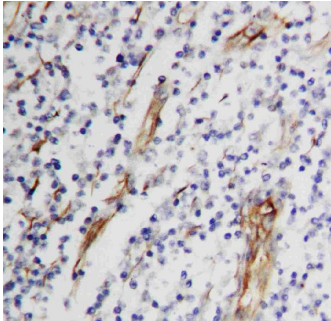
Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, By Heat

Western blot, 0.1-0.5ug/ml, Human

Anti-CD105/ENG Antibody (PA1395) Images



Anti-CD105 antibody, PA1395, IHC(P)
IHC(P): Human Mammary Cancer Tissue

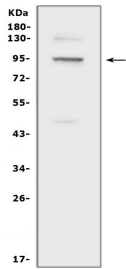


Figure 1. Western blot analysis of CD105 using anti-CD105 antibody (PA1395).

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 HepG2 whole cell lysates

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-CD105 antigen affinity purified polyclonal antibody (Catalog # PA1395) 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 CD105 at approximately 95KD. The expected band size for CD105 is at 71KD.

9 Publications Citing This Product

1. PubMed ID: 25849455, Li J, Zeng G, Qi Y, Tang X, Zhang J, Wu Z, Liang J, Shi L, Liu H, Zhang P. Plos One. 2015 Apr 7;10(4):E0123264. Doi: 10.1371/Journal.Pone.0123264. Ecollection 2015. Xenotransplantation Of Human Adipose-Derived Stem Cells In Zebrafish Embryos.
2. PubMed ID: 21482223, Ren S, Fengyu, Zuo S, Zhao M, Wang X, Wang X, Chen Y, Wu Z, Ren Z. Vaccine. 2011 Aug 5;29(34):5802-11. Doi: 10.1016/J.Vaccine.2011.03.051. Epub 2011 Apr 9. Inhibition Of Tumor Angiogenesis In Lung Cancer By T4 Phage Surface Displaying Mvegr2 Vacc...
3. PubMed ID: 19417736, Ren Sx, Ren Zj, Zhao My, Wang Xb, Zuo Sg, Yu F. Acta Pharmacol Sin. 2009 May;30(5):637-45. Doi: 10.1038/Aps.2009.44. Antitumor Activity Of Endogenous Mflt4 Displayed On A T4 Phage Nanoparticle Surface.

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