

Anti-PGF Antibody Picoband™

Catalog Number: A01164-2

About PGF

Placental growth factor (PGF, also known as PLGF) codes for an angiogenic factor expressed in placental tissue that is similar to vascular permeability factor/vascular endothelial growth factor (VPF/VEGF). It is a glycosylated dimeric secreted protein able to stimulate endothelial cell growth in vitro. PGF is located on chromosome 14 and has been conserved in evolution. It belongs to the family of vascular endothelial growth factors (VEGFs) and binds to the flt-1 VEGF receptor. PLGF-2, which is a PLGF isoform, binds neuropilin-1 and 2 in a heparin-dependent manner. PGF regulates inter- and intra molecular cross talk between the VEGF RTKs Flt1 and Flk1 and stimulates the phosphorylation of specific Flt1 tyrosine residues and the expression of distinct downstream target genes. Moreover, it plays an important role in pathological angiogenic events and with exerting its biological activities through binding to VEGFR1.

Overview

Product Name	Anti-PGF Antibody Picoband™
Reactive Species	Human, Mouse
Description	Boster Bio Anti-PGF Antibody Picoband™ catalog # A01164-2. Tested in ELISA, WB applications. This antibody reacts with Human, Mouse.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
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	P49763

Technical Details

Immunogen	E. coli-derived human PGF recombinant protein (Position: E37-D60).
Predicted Reactive Species	Human
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> <p>ELISA, 0.1-0.5ug/ml</p>

Anti-PGF Antibody Picoband™ (A01164-2) Images

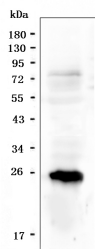


Figure 1. Western blot analysis of PGF using anti-PGF antibody (A01164-2).

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 T-47D 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-PGF antigen affinity purified polyclonal antibody (Catalog # A01164-2) 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 1:10000 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 PGF at approximately 25KD. The expected band size for PGF is at 25KD.

1 Publications Citing This Product

1. PubMed ID: 22079325, Xu Y, Luo J, Yue Z, Wu L, Zhang X, Zhou C, Zhao F, Wang X, Chen G. Brain Res. 2012 Jan 6;1429:124-33. Doi: 10.1016/J.Brainres.2011.10.008. Epub 2011 Oct 6. Increased Expression Of Placental Growth Factor In Patients With Temporal Lobe Epilepsy And...

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