

Anti-PGF Picoband Antibody

Catalog # ABO12931

Product Information

Application	WB, E
Primary Accession	PgF: Q63434
Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for PGF detection. Tested with WB, Direct ELISA in Mouse;Rat.

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Application Details	Western blot, 0.1-0.5 µg/ml Direct ELISA, 0.1-0.5 µg/ml
Subcellular Localization	Secreted .
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	E. coli-derived rat PGF recombinant protein (Position: A24-L158).
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins.
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Protein Information

Background

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.

Images

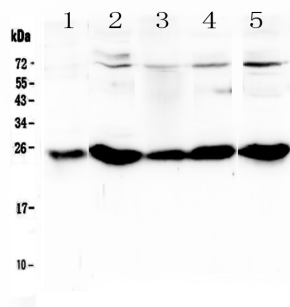


Figure 1. Western blot analysis of PGF using anti-PGF antibody (ABO12931). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat gaster tissue lysates, Lane 2: rat liver tissue lysates, Lane 3: mouse gaster tissue lysates, Lane 4: mouse liver tissue lysates, Lane 5: mouse HEPA1-6 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-PGF antigen affinity purified polyclonal antibody (Catalog # ABO12931) 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 with Tanon 5200 system. A specific band was detected for PGF at approximately 25KD. The expected band size for PGF is at 25KD.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.