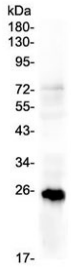
PGF Antibody / PLGF / Placenta Growth Factor (RQ4653)

Catalog No.	Formulation	Size
RQ4653	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P49763
Applications	Western Blot : 0.5-1ug/ml Direct ELISA : 0.1-0.5ug/ml (recombinant human protein)
Limitations	This PGF antibody is available for research use only.



Western blot testing of human T-47D lysate with PGF antibody at 0.5ug/ml. Expected molecular weight: 19-28 kDa depending on glycosylation level.

Description

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.

Application Notes

Optimal dilution of the PGF antibody should be determined by the researcher.

Immunogen

Amino acids E37-D60 from the human protein were used as the immunogen for the PGF antibody.

Storage

After reconstitution, the PGF antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.