

Product datasheet for **AP23368PU-N**

PLGF (PGF) (N-term) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	Western blot: At 1-2µg/ml with the appropriate system to detect PLGF in cells and tissues. Immunohistochemistry on paraffin sections: At 1-2µg/ml to detect PLGF in formalin fixed and paraffin embedded tissues. Immunocytochemistry.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to a sequence mapping near the N-terminal of human PLGF
Specificity:	This antibody detects Placenta growth factor / PGF (N-term). No cross reactivity with other proteins.
Formulation:	50% glycerol, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ State: Aff - Purified State: Lyophilized Ig fraction
Reconstitution Method:	1.2% sodium acetate or neutral PBS. If 0.5ml of PBS is used, the antibody concentration will be 100µg/ml.
Purification:	Immunogen affinity purified
Conjugation:	Unconjugated
Storage:	Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	placental growth factor
Database Link:	Entrez Gene 18654 Mouse Entrez Gene 94203 Rat Entrez Gene 5228 Human P49763



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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.

Synonyms:

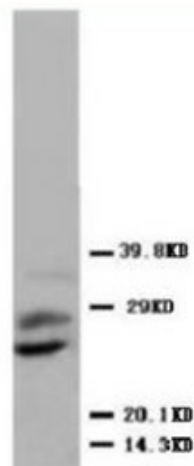
PGFL, PLGF, PIGF

Protein Families:

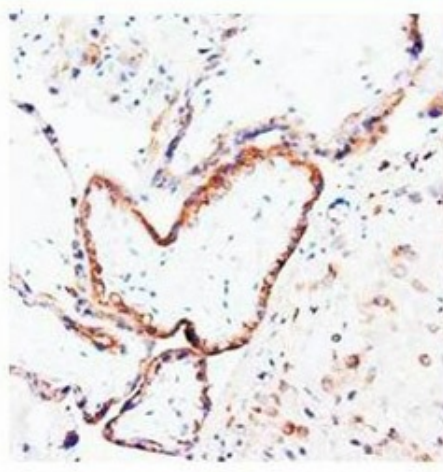
Druggable Genome, Secreted Protein

Protein Pathways:

Bladder cancer, Focal adhesion, mTOR signaling pathway, Pancreatic cancer, Pathways in cancer, Renal cell carcinoma

Product images:

Western blot analysis of human placenta tissue lysis using PLGF antibody



Immunohistochemical analysis of paraffin embedded human placenta sections; staining in cytoplasm; DAB chromogenic reaction