

Rabbit Anti-PLGF antibody

SL0281R

Product Name PLGF

Chinese Name 胎盘生长因子抗体

Alias Placenta growth factor; PGF; PGFL; PIGF; Placental growth factor vascular endothelial growth factor related protein; PIGF 2; PLGF; PIGF2; PLGF_HUMAN; Vascular endothelial growth factor related protein.

Research Area Tumour Cell biology immunology Growth factors and hormones transcriptional regulatory factor vascular endothelial cell

Immunogen Species Rabbit

Clonality Polyclonal

React Species Human,
WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)
Applications not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 23kDa

Cellular localization Secretory protein

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human PLGF: 166-221/221

Lsotype IgG

Purification affinity purified by Protein A

Buffer Solution 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

PubMed [PubMed](#)

The placental-derived growth factor (PlGF) is a dimeric glycoprotein showing a high degree of sequence similarity to the vascular endothelial growth factor. Alternative splicing of the PlGF primary transcript gives rise to two forms, named PlGF-1 and PlGF-2, which differ only in the insertion of a highly basic 21-amino acid stretch at the carboxyl end. The presence of the PlGF mRNA in thyroid, placenta, lung, and goiter has indicated the tissues where this factor functions. However, the role of PlGF in vascular development has not yet been clearly established.

Function:

Growth factor active in angiogenesis and endothelial cell growth, stimulating their proliferation and migration. It binds to the receptor FLT1/VEGFR-1. Isoform PlGF-2 binds NRP1/neuropilin-1 and NRP2/neuropilin-2 in a heparin-dependent manner.

Subunit:

Antiparallel homodimer; disulfide-linked. Also found as heterodimer with VEGFA/VEGF. Isoform PlGF-3 is found both as homodimer and as monomer.

Subcellular Location:

Secreted. The three isoforms are secreted but PlGF-2 appears to remain cell attached unless released by heparin.

Tissue Specificity:

While the three isoforms are present in most placental tissues, PlGF-2 is specific to early (8 week) placenta and only PlGF-1 is found in the colon and mammary carcinomas.

Post-translational modifications:

N-glycosylated.

Similarity:

Belongs to the PDGF/VEGF growth factor family.

SWISS:

P49763

Gene ID:

5228

Database links:

[Entrez Gene: 5228](#) Human

[Entrez Gene: 18654](#) Mouse

**Product
Detail**

[Omim: 601121](#) Human

[SwissProt: P49763](#) Human

[SwissProt: P49764](#) Mouse

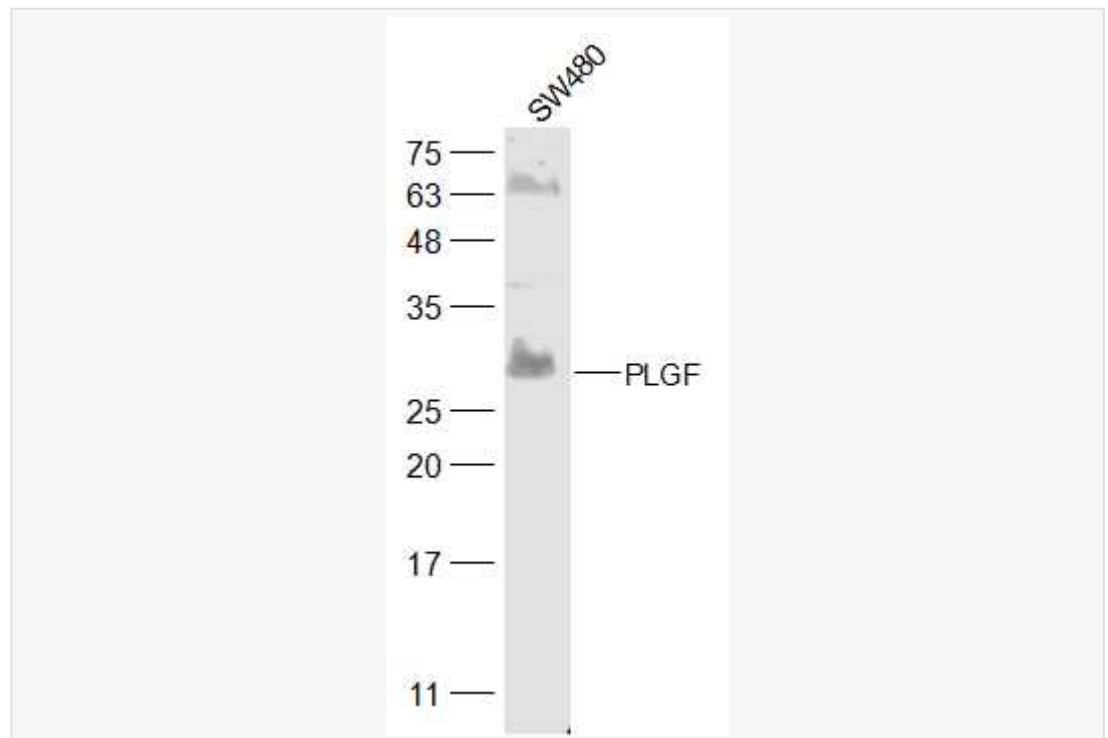
[Unigene: 252820](#) Human

[Unigene: 4809](#) Mouse

PLGF 胎盘生长因子是血管生长因子家族成员之一，是动脉粥样硬化斑块不稳定的主要炎性激活物，因此它可作为 ACS 患者风险预测的生物学 Marker.尿胎盘生长因子水平可预测先兆子痫危险.研究人员发现，在疾病发作前的 6 到 8 周，先兆子痫患者尿液中的胎盘生长因子水平急剧下降,这种新的尿检方法使提前 1 到 2 个月预测先兆子痫成为可能。亦有研究人员正在从事胎盘生长因子与肺气肿，胃癌，肠癌等方面的研究。

相关抗体 SL0280R(抗大鼠) SL0234R(抗小鼠)

**Product
Picture**



Sample:

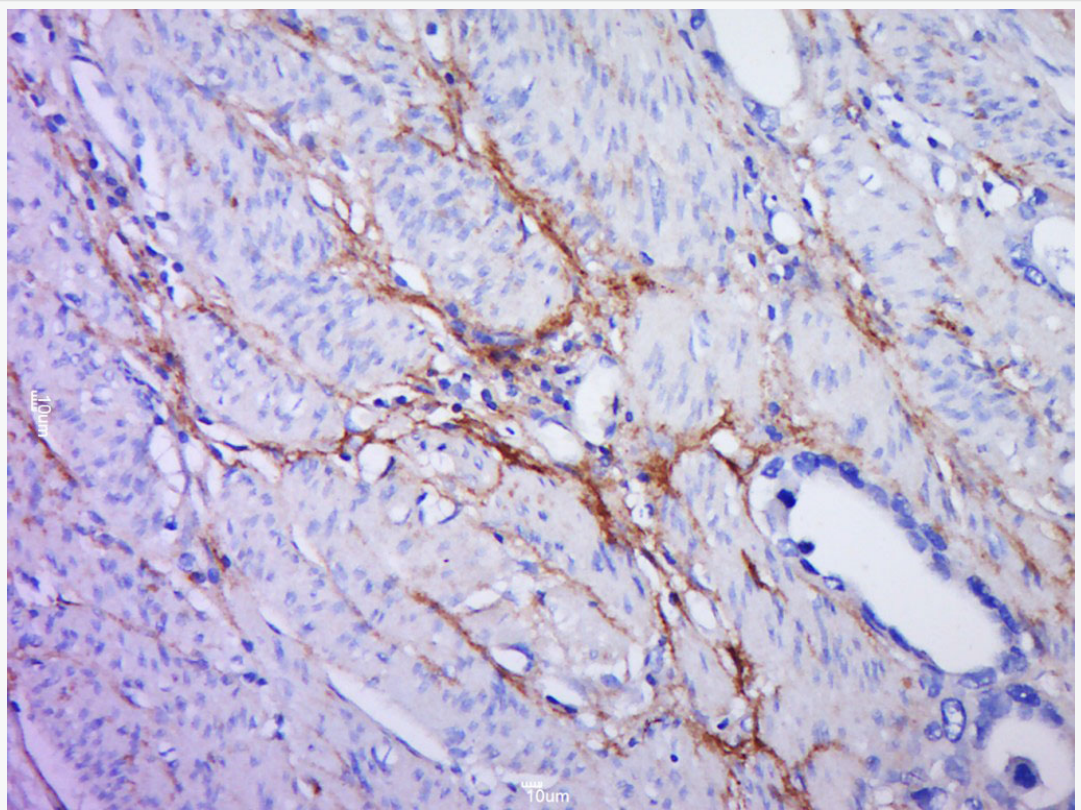
SW480(Human) Cell Lysate at 30 ug

Primary: Anti-PLGF (SL0281R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

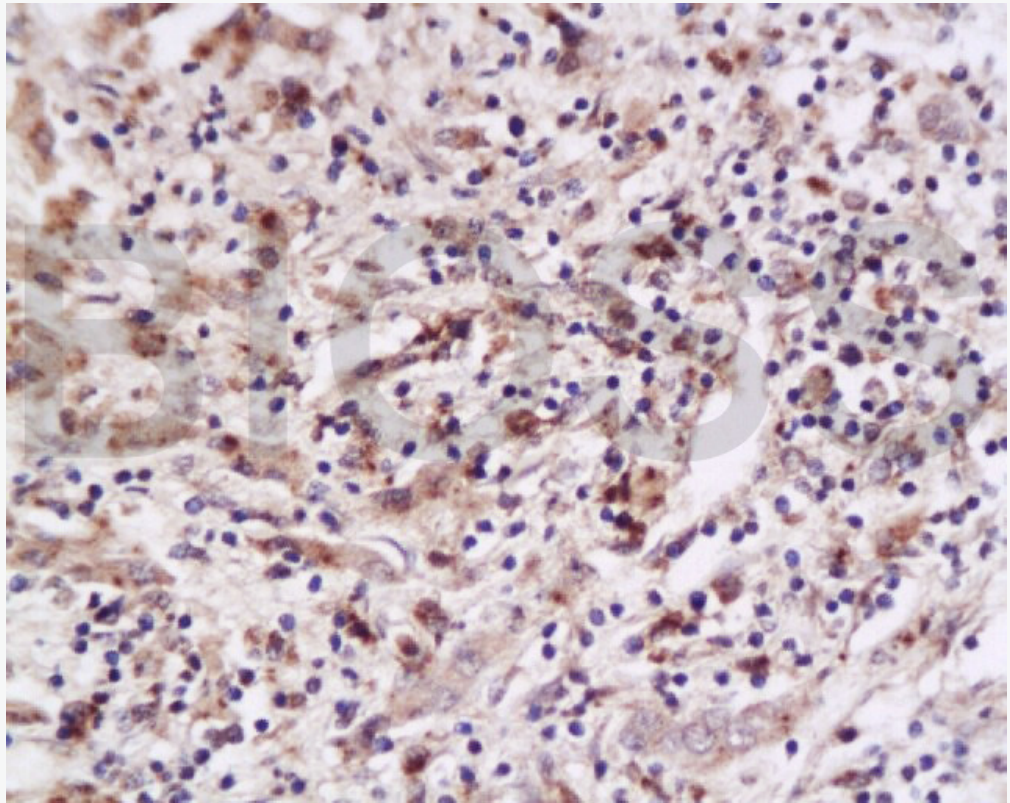
Predicted band size: 35 kD

Observed band size: 29 kD



Paraformaldehyde-fixed, paraffin embedded (Human stomach cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Placenta growth factor; PLGF) Polyclonal Antibody, Unconjugated (SL0281R) at 1:400 overnight at 4°C,

followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Tissue/cell: human liver carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-PLGF Polyclonal Antibody, Unconjugated(SL0281R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



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