

Product datasheet for **AP31725PU-S**

Pgf Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Western Blot: 2-5 µg/ml. No cross-reactivity with recombinant Human PlGF under non-reducing conditions is observed. Immunofluorescence/Immunohistochemistry. Immunohistochemistry on Paraffin Sections.
Reactivity:	Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Highly pure (> 95%) recombinant Mouse PlGF (Ala24-Pro158) derived from Sf9 insect cells (<i>Cat.-No</i> AR26011PU-L).
Specificity:	Recognizes Mouse PlGF. Other species not tested.
Formulation:	5mM PBS, pH 7.2 State: Aff - Purified State: Liquid purified IgG fraction
Reconstitution Method:	Restore in sterile water to a concentration of 0.1-1.0 mg/ml. Centrifuge vial prior to opening.
Purification:	Antigen Affinity Chromatography
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	placental growth factor
Database Link:	Entrez Gene 18654 Mouse P49764



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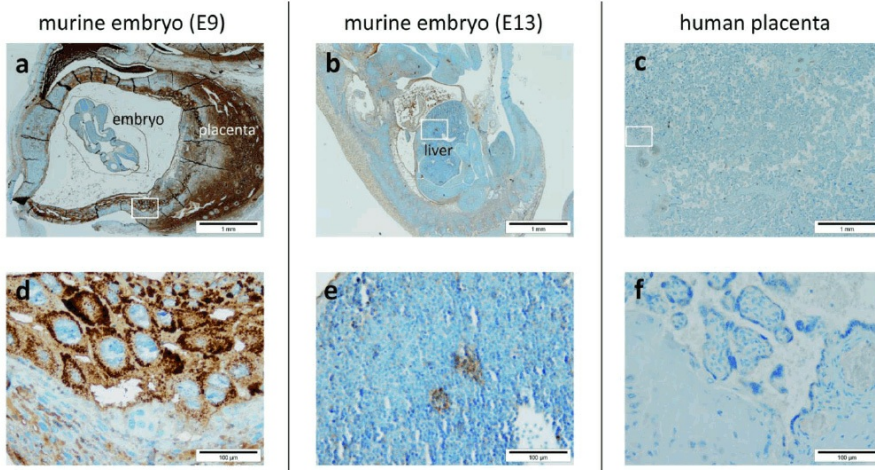
Background:

Placenta growth factor (PIGF) is a member of the vascular endothelial growth factor (VEGF) family of growth factors. PIGF and VEGF share primary structural as well as limited amino acid sequence homology with the A and B chains of PDGF. All eight cysteine residues involved in intra and interchain disulfides are conserved among these growth factors. As a result of alternative splicing, three PIGF RNAs encoding monomeric human PIGF1, PIGF2 and PIGF3 isoform precursors containing 149, 179 and 219 amino acid residues, respectively, have been described. In normal mouse tissues, only one mouse PIGF mRNA encoding the equivalent of human PIGF2 has been identified. Mouse PIGF shares 65% amino acid identity with human PIGF2. The gene for PIGF has been mapped to mouse chromosome 12 and human chromosome 14. PIGF binds with high affinity to Flt1, but not to Flk1/KDR.

Synonyms:

PGFL, PLGF, PIGF

Product images:



Immunohistochemical staining of PIGF in paraffin-embedded mouse placenta embryo (a and b) showing intense cytoplasmic staining in mouse placenta at E9. In the embryo a positive signal was observed in endothelial structures of highly vascularized organs. Cross-reactivity of antibody was disproved as staining of human placenta did not reveal any signal ©. Lower panel shows higher magnification of boxes in a-c. The experiments were performed by Dr. Frank Bicker from the research group ??Molecular Signal Transduction?? (Prof. Dr. Mirko HH Schmidt), Institute of Microscopic Anatomy and Neurobiology, University Medical Center of Johannes Gutenberg University Mainz, Germany.