Human PlGF Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF6837

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human PlGF in direct ELISAs. In direct ELISAs, approximately 50% cross-reactivity with recombinant mouse PlGF-2 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human PlGF Leu19-Arg170 Accession # NP_002623
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

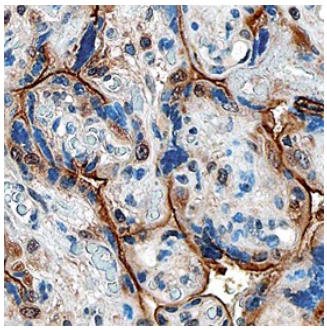
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Immunohistochemistry	5-15 µg/mL	See Below

DATA

Immunohistochemistry



PlGF in Human Placenta. PlGF was detected in formalin fixed paraffin-embedded sections of human placenta using Sheep Anti-Human PlGF Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6837) at 10 µg/mL overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Sheep HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS019) and counterstained with hematoxylin (blue). Specific staining was localized to syncytiotrophoblasts. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Placenta Growth Factor (PlGF) is a member of the Vascular Endothelial Growth Factor (VEGF) family of growth factors. PlGF 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 inter-chain disulfides are conserved among these growth factors. In their PDGF-like regions, VEGF and PlGF also share approximately 53% amino acid sequence similarity. The gene for PlGF has been mapped to chromosome 14. As a result of alternative splicing, at least two PlGF mRNAs encoding monomeric PlGF precursors containing 149 and 170 amino acid residues have been described. The expression of PlGF is not widespread, but has been detected in human umbilical vein endothelial cells, placenta, choriocarcinoma cell lines, and in renal cell carcinoma associated with angiogenesis. The PlGF proteins bind with high-affinity to Flt-1, but not to Flk-1/KDR.

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