

PGF Rabbit Anti-Human PGF pAb

Catalog No. CPP501A Quantity: 100 μg

CPP501B 200 µg

Alternate Names: PGFL, PLGF, PIGF-2, placenta growth factor, placental growth factor, vascular

endothelial growth factor-related protein, placental growth factor-like

Description: Rabbit Anti-Human PGF polyclonal antibody.

Human Placenta Growth Factor-2 (PGF-2), a 22 kDa protein consisting of 152 amino acid residues, is produced as a homodimer. PGF is a polypeptide growth factor and a member of the platelet-derived growth factor family but more related to vascular

member of the platelet-derived growth factor family but more related to vascular endothelial growth factor (VEGF). PGF acts only as a weak mitogen for those cell types possessing receptors for binding (e.g. vascular endothelial cells). At least one high-affinity receptor for PGF (FLT-1 or VEGF-R1) has been demonstrated in different primary cell types (e.g. human umbilical vein endothelial cells and monocytes). In addition to its action as a weak mitogen it is also a chemoattractant for monocytes and endothelial cells. Two different proteins are generated by differential splicing of the human PGF gene: PGF-1 (131 aa native chain) and PGF-2 (152 aa native chain). Both mitogens are secretable proteins, but PGF-2 can bind to heparin with high affinity. PGF is apparently a homodimer, but preparations of PGF show some heterogeneity on SDS gels depending of the varying degrees of glycosylation. All dimeric forms possess similar biological activities. If PGF is angiogenic *in vivo* is not clear. However, heterodimers between VEGF and PGF are mitogenic for endothelial cells and have strong angiogenic activity *in vivo* (e.g. in the CAM assay or in the cornea pocket assay). Different cells and tissues (e.g. placenta) express PGF-1 and PGF-2 at different rates. A much related protein of PGF

is VEGF with about 53% homology and VEGF-B with similar biological activities.

Gene ID: 5228

Specificity: Human PGF

Host: Rabbit

Immunogen: Recombinant Human PGF-2 (Leu19-Arg170) expressed in insect cells (Cell Sciences Cat

CRP202)

Isotype: IgG

Formulation: Lyophilized from PBS solution

Purification: Protein A chromatography

Reconstitution: Centrifuge vial prior to opening. Reconstitute with sterile water to a concentration of

0.1-1.0 mg/ml.

Cross-Reactivity: Reacts with all human PGF isoforms. Cross-reactivity to other species has not been

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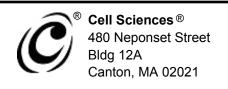
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Applications: Western Blot: Use 2-5 μg/ml

ELISA: Use at 1-5 μg/ml

The optimal concentration should be determined by the user for each specific application.

Storage & Stability: The lyophilized antibody is stable at room temperature for up to 1 month. The

reconstituted antibody is stable for at least two weeks at 2-8°C. Frozen aliquots are stable for at least 6 months when stored at -20°C. **Avoid repeated freeze/thaw cycles.**

NOT FOR HUMAN USE, FOR RESEARCH ONLY, NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

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