

PGF

Rabbit Anti-Human PGF pAb

Catalog No.	CPP501A CPP501B	Quantity:	100 µg 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:	<p>Rabbit Anti-Human PGF polyclonal antibody.</p> <p>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 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 <i>in vivo</i> is not clear. However, heterodimers between VEGF and PGF are mitogenic for endothelial cells and have strong angiogenic activity <i>in vivo</i> (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.</p>		
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 determined.		

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.**

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