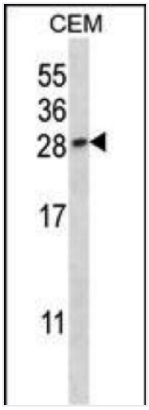
PGF Antibody – Rabbit Polyclonal

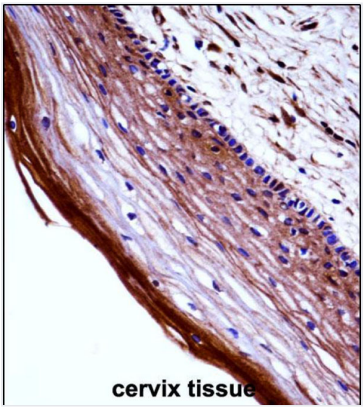
PRODUCT OVERVIEW

Product Name	PGF, Polyclonal Antibody
Full Product Name	PGF, ID (PGF, PGFL, PLGF, Placenta growth factor) (PE)
Product Gene Name	anti-PGF antibody
Product Synonym Names	PGF; PGFL; PLGF; Placenta growth factor
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	24,789 Da
Chromosome Location	Chromosome: 14; NC_000014.9 (74941830..74955764, complement). Location: 14q24.3
OMIM	601121
3D Structure	ModBase 3D Structure for P49763
Immunogen	PGF antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 119-148 amino acids from the Central region of human PGF.
Conjugate	PE
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-PGF antibody	Antibodies; Growth Factors; Cytokines
Applications Tested/Suitable for anti-PGF antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-PGF antibody	IHC: 1:10-50 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-PGF antibody	The PGF gene encodes placenta growth factor, a homolog of vascular endothelial growth factor (VEGFA; MIM 192240), that selectively binds to VEGFR1 (FLT1; MIM 165070) and is involved in angiogenesis (Fischer et al., 2007 [PubMed 17981115]; Bais et al., 2010 [PubMed 20371352]).
Product References and Citations for anti-PGF antibody	Romero, R., et al. Am. J. Obstet. Gynecol. 203 (4), 361 (2010): Cowans, N.J., et al. Prenat. Diagn. 30(6):565-570(2010). Romero, R., et al. Am. J. Obstet. Gynecol. 202 (5), 431 (2010): Andersson, M.K., et al. BMC Cancer 10, 249 (2010): Pan, P., et al. BMC Cell Biol. 11, 36 (2010).

Other Notes	Small volumes of anti-PGF antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PGF purchase	MBS6333034 is an antibody targeting PGF. Also known as PGF, ID (PGF, PGFL, PLGF, Placenta growth factor) (PE). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-PGF antibody
PGF Antibody (Center) western blot analysis in CEM cell line lysates (35ug/lane). This demonstrates MBS6012647 detected the PGF protein (arrow).



Immunohistochemistry (IHC) of anti-PGF antibody
PGF Antibody (Center) immunohistochemistry analysis in formalin fixed and paraffin embedded human cervix tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of PGF Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PGF. It may not necessarily be applicable to this product.

NCBI GI #	20149543
NCBI GeneID	5228
NCBI Accession #	NP_002623.2
UniProt Primary Accession #	P49763
UniProt Secondary Accession #	Q07101; Q9BV78; Q9Y6S8
UniProt Related Accession #	P49763
GenBank Nucleotide #	NM_002632.5
NCBI Official Full Name	placenta growth factor isoform 1
NCBI Official Synonym Full Names	placental growth factor
NCBI Official Symbol	PGF
NCBI Official Synonym Symbols	PGFL; PLGF; PlGF-2; D12S1900; SHGC-10760
UniProt Protein Name	Placenta growth factor
Protein Family	Placenta growth factor
UniProt Gene Name	PGF
UniProt Synonym Gene Names	PGFL; PLGF; PlGF
UniProt Entry Name	PLGF_HUMAN
NCBI Protein Information	placenta growth factor; placental growth factor, vascular endothelial growth factor-related protein

UniProt Comments for PGF	PGF: 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. Also promotes cell tumor growth. Belongs to the PDGF/VEGF growth factor family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 14q24.3 Cellular Component: extracellular space; membrane; extracellular region Molecular Function: heparin binding; protein binding; protein homodimerization activity; growth factor activity; protein heterodimerization activity Biological Process: response to drug; organ regeneration; female pregnancy; signal transduction; cellular response to hormone stimulus; positive regulation of angiogenesis; cell-cell signaling; ureteric bud branching; positive regulation of cell division; positive regulation of cell proliferation; response to hypoxia; positive regulation of endothelial cell proliferation; sprouting angiogenesis; vascular endothelial growth factor receptor signaling pathway; cell differentiation
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