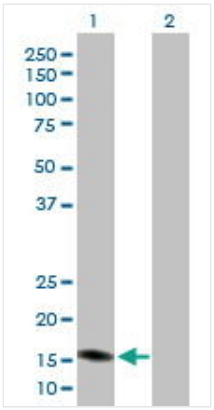
PLGF Antibody – Rabbit Polyclonal

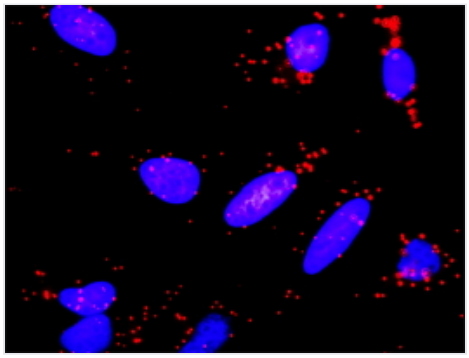
PRODUCT OVERVIEW

Product Name	PLGF, Polyclonal Antibody
Full Product Name	PLGF (Placenta Growth Factor, Placental Growth Factor, PGF, PGFL, D12S1900, PlGF-2, SHGC-10760) (Biotin)
Product Gene Name	anti-PLGF antibody
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 Biotin.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human PGF.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and stor prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and p
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	Full length human PGF, aa1-170 (NP_002623.2).
Immunogen Sequence	MPVMRLFPCFLQLLAGLALPAVPPQQWALSAGNGSSEVEVVPFQEVWGRSYCRALERLVDVVSEYPSEVEHMFSPSCVSLLRCTGCCGDENLHCVPVE
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-PLGF antibody	Antibodies; Growth Factors; Cytokines
Applications Tested/Suitable for anti-PLGF antibody	Western Blot (WB)
Application Notes for anti-PLGF antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-PLGF antibody	Placenta growth factor belongs to the PDGF/VEGF growth factor family. It is a secreted N-glycosylated protein with roles in angiogenesis and endothel
Other Notes	Small volumes of anti-PLGF antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessa products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PLGF purchase	MBS6389792 is an antibody targeting PLGF. Also known as PLGF (Placenta Growth Factor, Placental Growth Factor, PGF, PGFL, D12S1900, PlGF-2



Western Blot (WB) of anti-PLGF antibody
Western Blot analysis of PGF expression in transfected 293T cell line by PGF polyclonal antibody. Lane 1: PGF transfected lysate (19.3kD). Lane 2: Non-transfected lysate



Testing Data of anti-PLGF antibody
Proximity Ligation Analysis of protein-protein interactions between PGF and VEGFA. HeLa cells were stained with PGF rabbit purified polyclonal 1:1200 and VEGFA mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PLGF. 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
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 PLGF	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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