



# Anti-PGF polyclonal antibody [Biotin] (DPABY-508)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Antigen Description</b>	Placenta growth factor (PIGF) is a member of the vascular endothelial growth factor (VEGF) family of growth factors. PIGF 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. As a result of alternative splicing, three PIGF RNAs encoding monomeric human PIGF-1, PIGF-2 and PIGF-3 isoform precursors containing 149, 179 and 219 amino acid residues, respectively, have been described. In normal mouse tissues, only one mouse PIGF mRNA encoding the equivalent of human PIGF-2 has been identified. Mouse PIGF-2 encodes a 158 amino acid residue precursor protein. Mouse PIGF-2 shares 65% amino acid identity with human PIGF-2. The gene for PIGF has been mapped to mouse chromosome 12 and human chromosome 14.
<b>Specificity</b>	Detects mouse PIGF-2 in ELISAs and Western blots. In sandwich immunoassays, less than 0.05% cross-reactivity with rmVEGF R1 Fc Chimera, rmVEGF R2 Fc Chimera, and rmVEGFR3Fc Chimera is observed.
<b>Immunogen</b>	S. frugiperda insect ovarian cell line Sf 21-derived recombinant mouse PIGF-2 . Ala24-Pro158 Accession Number Q544A5
<b>Isotype</b>	IgG
<b>Source/Host</b>	Goat
<b>Species Reactivity</b>	Mouse
<b>Purification</b>	Antigen Affinity-purified
<b>Conjugate</b>	Biotin
<b>Applications</b>	Western Blot, ELISA Detection (Matched Pair)

<b>Format</b>	Liquid
<b>Size</b>	50 µg
<b>Buffer</b>	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.
<b>Preservative</b>	None
<b>Storage</b>	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.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Pgf placental growth factor [ Mus musculus (house mouse) ]</a>
<b>Official Symbol</b>	PGF
<b>Synonyms</b>	PGF; placental growth factor; PIGF; Plgf; AI854365; placenta growth factor;
<b>Entrez Gene ID</b>	<a href="#">18654</a>
<b>Protein Refseq</b>	<a href="#">NP_001258634</a>
<b>UniProt ID</b>	<a href="#">Q544A5</a>
<b>Chromosome Location</b>	12 D; 12 39.58 cM
<b>Pathway</b>	Focal Adhesion; Focal adhesion; PI3K-Akt signaling pathway; Pathways in cancer; Rap1 signaling pathway; Ras signaling pathway; Signal Transduction; Signaling by VEGF;
<b>Function</b>	growth factor activity; protein heterodimerization activity; protein homodimerization activity;