

Mouse PIGF-2 Antibody

Monoclonal Rat IgG_{2A} Clone # 62503 Catalog Number: MAB4651

DESCRIPTION		
Species Reactivity	Mouse	
Specificity	Detects mouse PIGF-2 in ELISAs. In ELISAs, no cross-reactivity or interference was observed with recombinant mouse (rm) VEGF R1, rmVEGF R2, or rmVEGF R3.	
Source	Monoclonal Rat IgG _{2A} Clone # 62503	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	S. frugiperda insect ovarian cell line Sf 21-derived recombinant mouse PIGF-2 Ala24-Pro158 Accession # P49764	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

Mouse PIGF-2 Sandwich Immunoassay		Reagent
ELISA Capture	2-8 μg/mL	Mouse PIGF-2 Antibody (Catalog # MAB4651)
ELISA Detection	0.1-0.4 μg/mL	Mouse PIGF-2 Biotinylated Antibody (Catalog # BAF465)
Standard		Recombinant Mouse PIGF-2 (Catalog # 465-PL)

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Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.		
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C		
Stability & Storage	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		

BACKGROUND

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. Recombinant mouse PIGF preparations purified from the transfected Sf 21 insect cell conditioned medium contain a mixture of two distinct mature PIGF monomers that are derived from the removal of either a 23 or a 26 residue signal peptide from the amino-terminus of the 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. PIGF binds with high-affinity to FIt-1, but not to FIk-1/KDR.

References:

- 1. DiPalma, T. et al. (1996) Mamm. Genome 7:6.
- 2. Cao, Y. et al. (1997) Biochem. Biophys. Res. Commun. 235:493.
- 3. Ferrara, N. et al. (1997) Endocrin. Rev. 18:4.

