

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse PIGF-2 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human (rh) PIGF or rhVEGF is observed.
Source	Monoclonal Rat IgG _{2A} Clone # 62526
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant mouse PIGF-2 Ala24-Pro158 Accession # P49764
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.
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.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	Recombinant Mouse PIGF-2 (Catalog # 465-PL) under non-reducing conditions only
Blockade of Receptor-ligand Interaction	In a functional ELISA, 0.015 - 0.06 µg/mL of this antibody will block 50% of the binding of 4 ng/mL of recombinant mouse PIGF-2 to immobilized recombinant Mouse VEGFR1/Flt-1 Fc Chimera coated at 2 µg/mL (100 µL/well). At 1 µg/mL, this antibody will block >90% of the binding.	

PREPARATION AND STORAGE

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. <ul style="list-style-type: none"> • 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

PIGF is a member of the VEGF family of growth factors, and it binds with high-affinity to VEGF R1. As a result of alternative splicing, three human PIGF mRNAs encode PIGF-1 (PIGF₁₃₁), PIGF-2 (PIGF₁₅₂) and PIGF-3 (PIGF₂₀₃). Normal mouse tissues express only a 158 amino acid precursor that is the equivalent of human PIGF-2.