

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human PIGF in ELISAs. In ELISAs, this antibody does not cross-react with recombinant human (rh) VEGF, rhPDGF-AA, rhPDGF-AB, or rhPDGF-BB.
Source	Monoclonal Mouse IgG ₁ Clone # 37203
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human PIGF Ala21-Arg149 Accession # P49763
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

ELISA Capture (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.
ELISA Detection (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Placenta growth factor (PIGF) is a member of the vascular endothelial growth factor (VEGF) family of growth factors. As a result of alternative splicing, at least two PIGF mRNAs encoding monomeric PIGF precursors containing 149 and 170 amino acid residues have been described. The expression of PIGF is not widespread but has been detected in human umbilical vein endothelial cells, placenta, choriocarcinoma cell lines, and in renal cell carcinoma associated with angiogenesis. The PIGF proteins bind with high-affinity to VEGF R1/Flt-1 but not to VEGF R2/Flk-1.

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