

Biotin anti-human PIGF Antibody

Catalog# / Size	534904 / 100 µg
Clone	24G3
Regulatory Status	RUO
Other Names	PIGF, PLGF, Placental Growth Factor
Isotype	Mouse IgG2a
Description	<p>Placental growth factor (PIGF) is a member of the PDGF/VEGF family of growth factors. Four alternatively-spliced isoforms have been identified: PIGF-1, PIGF-2, PIGF-3, and PIGF-4. All isoforms are expressed in placental tissues, with PIGF-2 being expressed specifically during early placental development. PIGF-1 and PIGF-3 are considered diffusible isoforms, while PIGF-2 and PIGF-4 each contain a unique heparin binding domain that may increase associations with cell membranes. In addition to placental tissues, PIGF is expressed in the microvasculature, bone marrow, umbilical vein endothelia, uterine keratinocytes, and NK cells. PIGF binds to both VEGF-R1 and neuropilin, but not VEGF-R2 and induces monocyte activation, migration, inflammatory cytokine production. PIGF plays a key role in maternal vascular function during pregnancy, with circulating levels reaching a peak mid-gestation. It can be used as a marker for pregnancy-associated hypertensive disorders such as pre-eclampsia.</p>

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Recombinant protein
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography and conjugated with biotin under optimal conditions.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C. Do not freeze.
Application	ELISA-D - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by ELISA assay . For ELISA Detection applications, a concentration range of 0.1 - 4.0 µg/mL is recommended. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes	The biotin 24G3 antibody is useful as the detection antibody in a sandwich ELISA assay, when used in conjunction with pure 13C8 antibody (Cat. No. 534802) as the capture antibody.
RRID	AB_2894609 (BioLegend Cat. No. 534904)

Antigen Details

Structure	Homodimer
Distribution	Vascular endothelial cells, smooth muscle cells, keratinocytes, hematopoietic cells, retinal pigment epithelial cells, tumor cells, and cerebellar stroma cells.
Function	PIGF is an angiogenic factor and induces proliferation and migration of endothelial cells. It stimulates endothelial cells and synergistically amplifies the action of VEGF. Soluble VEGFR1 (sFLT1) can regulate the accessibility of PIGF.

Interaction Endothelial cells, Macrophages, and trophoblasts.
Ligand/Receptor VEGFR1 (FLT-1), and neuropilin 1 (Nrp1)
Cell Type Endothelial cells, Epithelial cells, Hematopoietic stem and progenitors
Antigen References

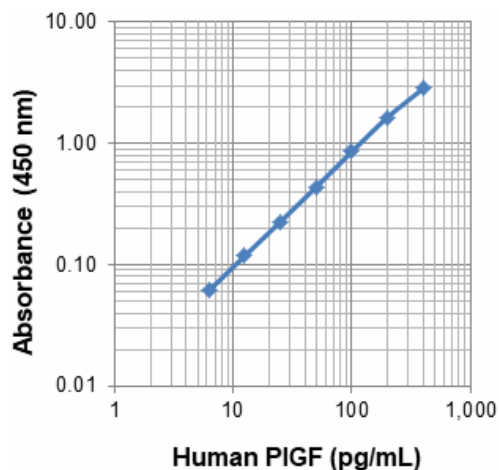
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4. Marcellini M, *et al.* 2006. *Am J Pathol.* 169:643.
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6. Cai J, *et al.* 2011. *PLoS One.* 6:e18076.
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Gene ID [5228](#)

Other Formats

Biotin anti-human PIGF

Product Data



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