

Goat Anti-PLGF Antibody
Peptide-affinity purified goat antibody
Catalog # AF2194a**Specification**

Goat Anti-PLGF Antibody - Product Information

Application	WB, E
Primary Accession	P49763
Other Accession	NP_002623 , 5228
Reactivity	Human
Predicted	Pig
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	24789

Goat Anti-PLGF Antibody - Additional Information**Gene ID** 5228**Other Names**

Placenta growth factor, PIGF, PGF, PGFL, PLGF

Dilution

WB~~1:1000

E~~N/A

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-PLGF Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-PLGF Antibody - Protein Information**Name** PGF**Synonyms** PGFL, PLGF**Function**

Growth factor active in angiogenesis and endothelial cell growth, stimulating their proliferation and migration. It binds to the receptor FLT1/VEGFR-1. Isoform PlGF-2 binds NRP1/neuropilin-1 and NRP2/neuropilin-2 in a heparin-dependent manner. Also promotes cell tumor growth.

Cellular Location

Secreted. Note=The three isoforms are secreted but PlGF-2 appears to remain cell attached unless released by heparin

Tissue Location

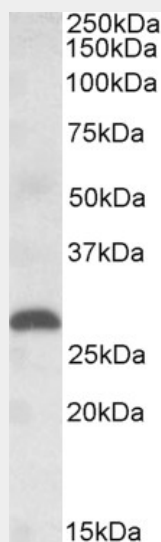
While the three isoforms are present in most placental tissues, PlGF-2 is specific to early (8 week) placenta and only PlGF-1 is found in the colon and mammary carcinomas

Goat Anti-PLGF Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-PLGF Antibody - Images



AF2194a (1 µg/ml) staining of Human Placenta lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-PLGF Antibody - References

A genetic association study of maternal and fetal candidate genes that predispose to preterm prelabor rupture of membranes (PROM). Romero R, et al. Am J Obstet Gynecol, 2010 Jul 29. PMID 20673868.

Nuclear expression of FLT1 and its ligand PGF in FUS-DDIT3 carrying myxoid liposarcomas suggests the existence of an intracrine signaling loop. Andersson MK, et al. BMC Cancer, 2010 Jun 1. PMID

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First-trimester placental growth factor as a marker for hypertensive disorders and SGA. Cowans NJ, et al. Prenat Diagn, 2010 Jun. PMID 20509158.

Identification of fetal and maternal single nucleotide polymorphisms in candidate genes that predispose to spontaneous preterm labor with intact membranes. Romero R, et al. Am J Obstet Gynecol, 2010 May. PMID 20452482.

Elevated serum placenta growth factor (PlGF) levels in patients with systemic sclerosis: a possible role in the development of skin but not lung fibrosis. Hamaguchi Y, et al. J Dermatol Sci, 2010 Jun. PMID 20451352.