

PGF Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP14578c

Specification

PGF Antibody (Center) Blocking Peptide - Product Information

Primary Accession [P49763](#)

PGF Antibody (Center) Blocking Peptide - Additional Information

Gene ID 5228

Other Names

Placenta growth factor, PIGF, PGF, PGFL, PLGF

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PGF Antibody (Center) Blocking Peptide - 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 PIGF-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 PIGF-2 appears to remain cell attached unless released by heparin

Tissue Location

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

PGF Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

PGF Antibody (Center) Blocking Peptide - Images

PGF Antibody (Center) Blocking Peptide - Background

The PGF gene encodes placenta growth factor, a homolog of vascular endothelial growth factor (VEGFA; MIM 192240), that selectively binds to VEGFR1 (FLT1; MIM 165070) and is involved in angiogenesis (Fischer et al., 2007 [PubMed 17981115]; Bais et al., 2010 [PubMed 20371352]).

PGF Antibody (Center) Blocking Peptide - References

Romero, R., et al. Am. J. Obstet. Gynecol. 203 (4), 361 (2010) :Cowans, N.J., et al. Prenat. Diagn. 30(6):565-570(2010) Romero, R., et al. Am. J. Obstet. Gynecol. 202 (5), 431 (2010) :Andersson, M.K., et al. BMC Cancer 10, 249 (2010) :Pan, P., et al. BMC Cell Biol. 11, 36 (2010) :