

Product datasheet

Recombinant Human PLGF protein ab256096

1 Image

Description

Product name	Recombinant Human PLGF protein	
Purity	> 95 % SDS-PAGE.	
Endotoxin level	<=1.000 Eu/μg	
Expression system	Escherichia coli	
Accession	<u>P49763</u>	
Protein length	Full length protein	
Animal free	Yes	
Nature	Recombinant	
Species	Human	
Sequence	MLPVPPQQWALSAGNGSSEVEVVPFQEVWGRSYCRA LERLVDVVSEYPS EVEHMFSPSCVSLLRCTGCCGDENLHCVPVETANVTMQ LLKIRSGDRPSY VELTFSQHVRCRHSRSPGRQSPDMPGDFRADAPSFLPP RRSLPMLFRMEW GCALTGSQSAVWPSSPVPEEIPRMHPGRNGKKQQRKPL REKMKPERCGDA VPRR	
Predicted molecular weight	23 kDa	
Amino acids	19 to 221	
Additional sequence information	Full-length mature chain lacking the signal peptide.	

Specifications

Our **Abpromise guarantee** covers the use of **ab256096** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Form	Lyophilized

Preparation and Storage

Stability and Storage

Shipped at Room Temperature. Store at -20°C. Avoid freeze / thaw cycle.

Constituent: 0.1% Trifluoroacetic acid

0.2 micron filtered

Reconstitution

Reconstitute in sterile water at 0.1 mg/ml. Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80°C and avoid repeat freeze thaws.

General Info

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.

Tissue specificity

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.

Sequence similarities

Belongs to the PDGF/VEGF growth factor family.

Domain

Isoform PIGF-2 contains a basic insert which acts as a cell retention signal.

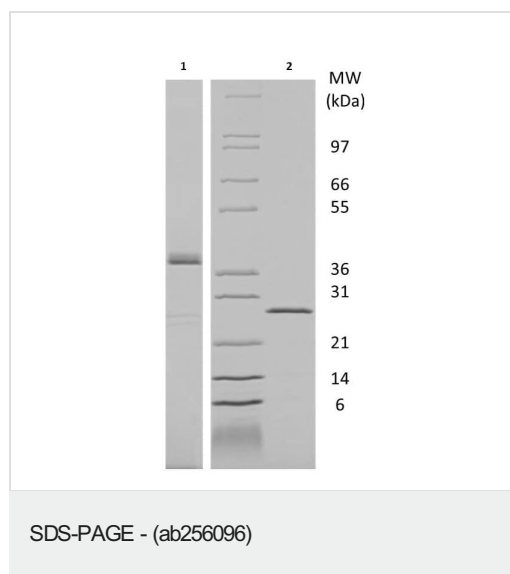
Post-translational modifications

N-glycosylated.

Cellular localization

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

Images



SDS-PAGE analysis of ab256096 under non-reducing (Lane 1) and reducing (Lane 2) conditions. ab256096 is a homodimer with a predicted MW of 45.8 kDa (monomer size is 22.9 kDa).

4-20% Tris-Glycine gel. Coomassie Blue staining.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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