

# Recombinant human PLGF protein (Active) ab174025

## 1 References [画像数 3](#)

### 製品の詳細

|             |                                                                                                                                                                              |  |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 製品名         | Recombinant human PLGF protein (Active)                                                                                                                                      |  |
| 生理活性        | Measured in a cell proliferation assay using MDA - MB – 231 Human breast cancer cells.<br>The ED <sub>50</sub> for this effect is typically 1 - 10 µg/ml.                    |  |
| 精製度         | > 95 % SDS-PAGE.                                                                                                                                                             |  |
| エンドトキシン・レベル | < 1.000 Eu/µg                                                                                                                                                                |  |
| 発現系         | HEK 293 cells                                                                                                                                                                |  |
| アクセッション番号   | <b><u>P49763-3</u></b>                                                                                                                                                       |  |
| タンパク質長      | Full length protein                                                                                                                                                          |  |
| Animal free | No                                                                                                                                                                           |  |
| 由来          | Recombinant                                                                                                                                                                  |  |
| 生物種         | Human                                                                                                                                                                        |  |
| 配列          | LPAVPPQWALSAGNGSSEVEVVPFQEVWGRSYCRALERLVD<br>VVSEYPSE<br>VEHMFSPSCVSLLRCTGCCGDENLHCVPVETANVTMQLLKIR<br>SGDRPSYV<br>ELTFSQHVRCECRPLREKMKPERRRPKGRGKRRREKQRPTDC<br>HLCGDAVP RR |  |
| 予測される分子量    | 20 kDa including tags                                                                                                                                                        |  |
| 領域          | 19 to 170                                                                                                                                                                    |  |
| タグ          | His tag C-Terminus                                                                                                                                                           |  |

### 特性

Our **Abpromise guarantee** covers the use of **ab174025** in the following tested applications.

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

|          |                                                                                                     |
|----------|-----------------------------------------------------------------------------------------------------|
| アプリケーション | SDS-PAGE                                                                                            |
|          | Functional Studies                                                                                  |
| 製品の状態    | Lyophilized                                                                                         |
| 備考       | The lyophilized product can be stored at 4°C or -80°C for 1 year. After reconstitution, store under |

sterile conditions for 1 month at 4°C - 8°C or 3 months at -70°C. Avoid repeated freeze-thaw cycles.

## 前処理および保存

### 保存方法および安定性

Shipped at 4°C. Store at 4°C prior to reconstitution. Store at -20°C or -80°C. Please see notes section.

pH: 7.4

Constituents: 0.6% Acetic acid, 10% Trehalose

pH 2-3

This product is an active protein and may elicit a biological response in vivo, handle with caution.

### 再構成

Reconstitute with 100mM acetic acid to a concentration of 200 µg/ml.

## 関連情報

### 機能

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.

### 組織特異性

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.

### 配列類似性

Belongs to the PDGF/VEGF growth factor family.

### ドメイン

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

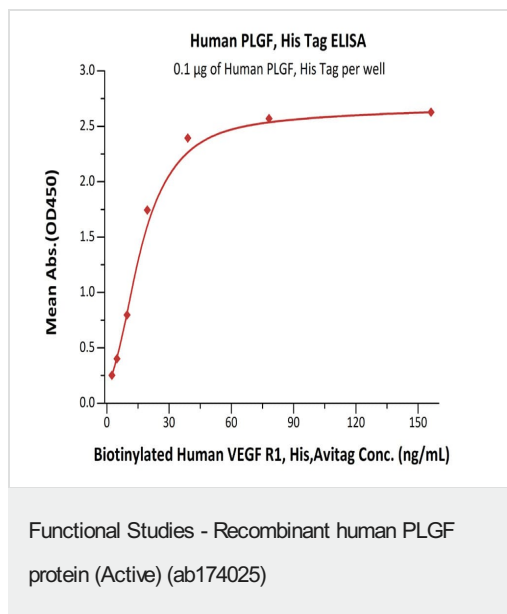
### 翻訳後修飾

N-glycosylated.

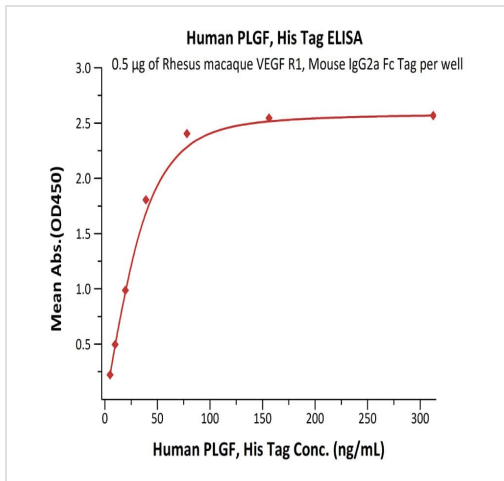
### 細胞内局在

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

## 画像

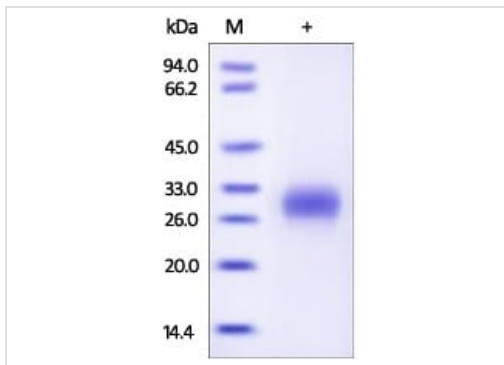


Immobilized ab174025 at 1 µg/mL (100 µL/well) can bind Biotinylated Human VEGF R1, His, Avitag ([ab246160](#)) with a linear range of 2-20 ng/mL



Immobilized Rhesus macaque VEGF R1, Mouse IgG2a Fc Tag, low endotoxin at 5 µg/mL (100 µL/well) can bind ab174025 with a linear range of 5-40 ng/mL

Functional Studies - Recombinant human PLGF protein (Active) (ab174025)



SDS-PAGE analysis of reduced ab174025 stained overnight with Coomassie Blue.

DTT-reduced Protein migrates as 28-33 kDa due to glycosylation.

SDS-PAGE - Recombinant human PLGF protein (Active) (ab174025)

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

### Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.co.jp/abpromise> or contact our technical team.

### Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors