

# Human PEDF/SERPINF1 antibody

Catalog Number: ATGA0484

## PRODUCT INFORMATION

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**Catalog number**

ATGA0484

**Clone No.**

AT13D9

**Product type**

Monoclonal Antibody

**UnitProt No.**

P36955

**NCBI Accession No.**

NP\_002606.3

**Alternative Names**

SERPINF1, Serpin peptidase inhibitor clade F member 1, Proliferation inducing protein 35, Pigment epithelium-derived factor EPC 1, Pigment epithelium-derived factor, PIG35, PI, GSTP1, GST3, Glutathione S-Transferase Pi 1, Glutathione S-transferase P Fatty Acid Ethyl Ester Synthase III, Glutathione S-transferase P, Glutathione S Transferase Pi, FAEES3, EPC1, DFN7, APF0619

**Additional Information**

APF0619 has been replaced with a catalog number ATGA0484.

## PRODUCT SPECIFICATION

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**Antibody Host**

Mouse

**Reacts With**

Human

**Concentration**

1mg/ml (determined by BCA assay)

**Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

**Immunogen**

Recombinant human PEDF (20-418aa) purified from E. coli.

**Isotype**

IgG1 kappa

**Purification Note**

By protein-A affinity chromatography

**Application**

ELISA, WB, FACS

# Human PEDF/SERPINF1 antibody

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## Usage

The antibody has been tested by ELISA, Western blot and FACS analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

## Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

### Description

Pigment epithelium-derived factor (PEDF) is a 50kDa glycoprotein and member of the serpin superfamily without any activity of serine protease. PEDF is an angiogenesis inhibitor with neurotrophic properties, balances angiogenesis in the eye and blocks tumor progression. That is, in neuronal cell, PEDF is promoting cell survival and differentiation, however, when endothelial cells are exposed to PEDF, their cell migration and proliferation are inhibited, and they undergo apoptosis.

### General References

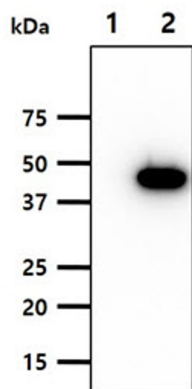
Baba H. et al (2005) *Arterioscler Thromb Vasc Biol.* 25: 1938-1944.

Filleur S. et al (2005) *Cancer Res.* 65: 5144-5152.

Hattenbach LO. et al (2004) *Ophthalmic Res.* 37: 341-346.

## DATA

### Western blot analysis (WB)

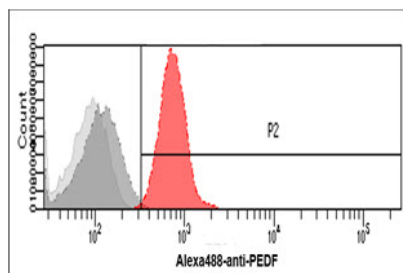


The cell lysates (10ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PEDF antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: 293T cell lysate

Lane 2.: PEDF transfected 293T cell lysate

### Flow cytometry (FACS)



Flow cytometry analysis of PEDF in K562 cells. The cell was stained with ATGA0484 at 2-5ug for  $1 \times 10^6$  cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).