PRODUCT INFORMATION

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 epitheliumderived 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

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

lgG1 kappa

Purification Note By protein-A affinity chromatography

Application

ELISA, WB, FACS

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

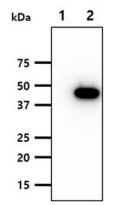
Pigment epithelium-derived factor (PEDF) is a 50kDa glycoprotein and member of the serpin superfamily without any activity of serine protease. PEDF is an angiogenesis inhibitor with neurotrophic properties, balances angiogenesis in the eye and blocks tumor progression. That is, in neuronal cell, PEDF 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

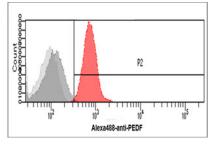
Baba H. et al (2005) Arteriosler Thromb Vasc Biol. 25: 1938-1944. Filleur S. et al (2005) Cancer Res. 65: 5144-5152. Hattenbach LO. et al (2004) Ophthalmic Res. 37: 341-346.

DATA

Western blot analysis (WB)



Flow cytometry (FACS)



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 analysis of PEDF in K562 cells. The cell was stained with ATGA0484 at 2-5ug for 1x10⁶cells (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).

2

