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Human PEDF/SERPINF1 antibody

Catalog Number: ATGA0484

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 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

IgG1 kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB, FACS



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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

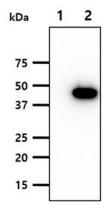
Pigment epithelium-derived factor (PEDF) is a 50kDa glycoprotein and member of the serpin superfamily without any activity of serine protease. PEDF is an angiogenesis inhibitor with neurotrophic properties, balances angiogenesis in the eye and blocks tumor progression. That is, in neuronal cell, PEDF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

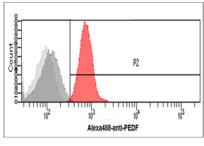


The cell lysates (10ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PEDF antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

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 1×10^6 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).

