

PEDF Antibody
Rabbit Polyclonal Antibody
Catalog # ABV11231**Specification**

PEDF Antibody - Product Information

Application	WB
Primary Accession	P36955
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	46312

PEDF Antibody - Additional Information**Gene ID** 5176

Positive Control	Western Blot: Jurkat cell lysate, 3T3 cell lysate, mouse muscle lysate, rat kidney lysate, recombinant protein
Application & Usage	Western blot: 1-4 µg

Other Names

Pigment epithelium-derived factor, PEDF, Serpin-F1, SerpinF1, EPC-1, EPC1, PIG35

Target/Specificity

PEDF

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg (0.5 mg/ml) of antibody in PBS pH 7.2 containing 0.01 % BSA, 0.01 % thimerosal, and 50 % glycerol.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

PEDF Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

PEDF Antibody - Protein Information

Name SERPINF1

Synonyms PEDF

Function

Neurotrophic protein; induces extensive neuronal differentiation in retinoblastoma cells. Potent inhibitor of angiogenesis. As it does not undergo the S (stressed) to R (relaxed) conformational transition characteristic of active serpins, it exhibits no serine protease inhibitory activity.

Cellular Location

Secreted. Melanosome. Note=Enriched in stage I melanosomes

Tissue Location

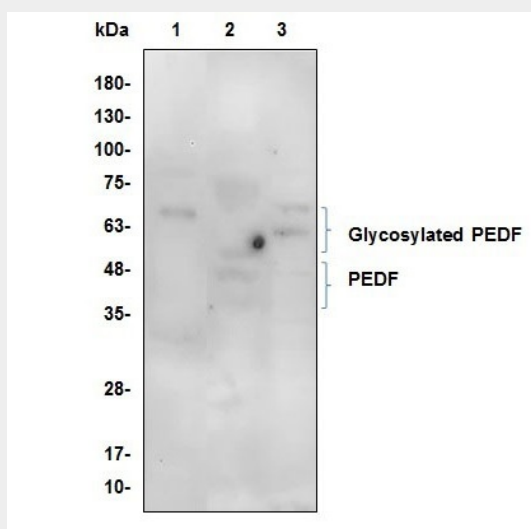
Retinal pigment epithelial cells and blood plasma.

PEDF Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PEDF Antibody - Images



Lane 1: 50 µg Jurkat cell lysate. Lane 2: 50 µg 3T3 cell lysate. Lane 3: 50 µg Mouse muscle lysate.
Land 4: 50 µg Rat kidney lysate

PEDF Antibody - Background

PEDF is a non-inhibitory serpin with neurotrophic, anti-angiogenic, and anti-tumorigenic properties. PEDF is a 50 kDa glycoprotein created and secreted in many tissues all the way through the body. A key component of the anti-angiogenic action of PEDF is the induction of apoptosis in proliferating endothelial cells. Additionally, PEDF is capable to inhibit the activity of angiogenic factors such as VEGF and FGF-2. The recognition of a lipase-linked cell membrane receptor for PEDF (PEDF-R) that binds to PEDF with high affinity should facilitate further elucidation of the underlying mechanisms of this pluripotent serpin. The unique range of PEDF activities associate it as a potential therapeutic agent for the treatment of vasculature related neurodegenerative diseases such as age-related macular degeneration (AMD) and proliferative diabetic retinopathy (PDR).