**bs-0731R** **[ Primary Antibody ]**

# PEDF Rabbit pAb

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## DATASHEET

**Host:** Rabbit **Isotype:** IgG

**Clonality:** Polyclonal

**GeneID:** 5176 **SWISS:** P36955

**Target:** PEDF

**Immunogen:** KLH conjugated synthetic peptide derived from human PEDF: 201-300/418.

**Purification:** affinity purified by Protein A

**Concentration:** 1mg/ml

**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**Background:** Pigment epithelium derived factor, originally identified in conditioned medium of cultured human fetal retinal pigment epithelial (RPE) cells, is a neurotrophic protein that induces extensive neuronal differentiation in human Y79 retinoblastoma cells, a neoplastic counterpart of normal retinoblasts. It has been suggested that PEDF is synthesized by RPE cells and secreted into the retina interphotoreceptor matrix where it may influence development/differentiation of the neural retina. PEDF is a 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. The PEDF gene is a member of the serpin gene family. Serpins are a group of serine protease inhibitors, some of which have also been reported to exhibit neurotrophic activity.

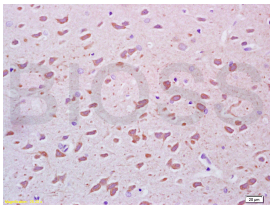
**Applications:** **IHC-P** (1:100-500)
**IHC-F** (1:100-500)
**IF** (1:100-500)

**Reactivity:** Human, Rat (predicted: Mouse, Pig, Cow, Dog)

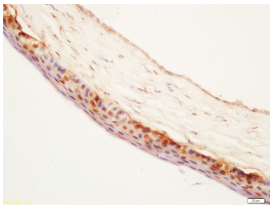
**Predicted MW.:** 46 kDa

**Subcellular Location:** Secreted

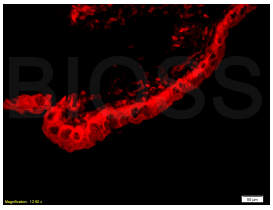
## VALIDATION IMAGES



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-PEGF Polyclonal Antibody, Unconjugated(bs-0731R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: chorioid of rat eyes; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-PEGF Polyclonal Antibody, Unconjugated(bs-0731R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: ciliary body of rat eye;4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-PEGF Polyclonal Antibody, Unconjugated(bs-0731R) 1:800, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated(bs-0295G-Cy3)used at 1:200 dilution for 40 minutes at 37°C.

## SELECTED CITATIONS


- **[IF=4.556]** Noy Bagdadi. et al. The Expression Levels and Cellular Localization of Pigment Epithelium Derived Factor (PEDF) in Mouse Testis: Its Possible Involvement in the Differentiation of Spermatogonial Cells. Int J Mol Sci. 2021 Jan;22(3):1147 IHC ;Mouse. 33498962

- **[IF=1.68]** Miao et al. Vascular Endothelial Growth Factor, Basic Fibroblast Growth Factor, and Pigment Epithelium-Derived Factor Expression in the Neovascular Iris in Retinal Diseases. (2018) J.Ophthalmol. 2018:8025951 WB ;Human. 29850214
- **[IF=2.064]** Yao Q et al.Lycium Barbarum Polysaccharides Improve Retinopathy in Diabetic Sprague-Dawley Rats.(2018)Evid Based Complement Alternat Med.Nov 15;2018:7943212. WB ;Rat. 30581486
- **[IF=1.9]** Liu Zao-Ling. et al. WGCNA reveals a biomarker for cancer-associated fibroblasts to predict prognosis in cervical cancer. J CHIN MED ASSOC. 2024 Jul;:10.1097/JCMA.0000000000001129 IHC ;Human. 38946034