bs-20784R **[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: 101-200/417.

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.

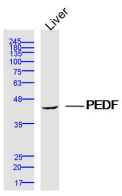
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human, Mouse (predicted: Pig, Sheep, Cow)

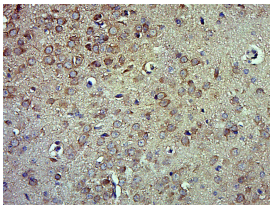
Predicted MW.: 46 kDa

Subcellular Location: Secreted

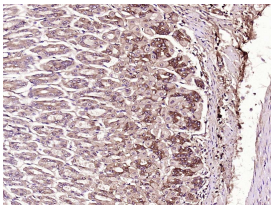
VALIDATION IMAGES



Sample: Liver (Mouse) Lysate at 40 ug Primary: Anti-PEDF (bs-20784R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 46 kD Observed band size: 46 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PEDF) Polyclonal Antibody, Unconjugated (bs-20784R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Mouse stomach); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PEDF) Polyclonal Antibody, Unconjugated (bs-20784R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

SELECTED CITATIONS

- **[IF=6.543]** He Jialin. et al. OM-MSCs Alleviate the Golgi Apparatus Stress Response following Cerebral Ischemia/Reperfusion Injury via the PEDF-PI3K/Akt/mTOR Signaling Pathway. Oxid Med Cell Longev. 2021;2021:4805040 WB ;Rat. 34815829
- **[IF=3.9]** Xia Sheng. et al. Clinical efficacy and mechanism of the combination of autologous platelet-rich gel and

recombinant human acidic fibroblast growth factor in the management of refractory diabetic foot. FRONT ENDOCRINOL. 2024 Oct;15: IHC ;Human. 39539934

- **[IF=3.4]** Zhao Geng. et al. ADAMTS5 promotes neovascularization via autophagic degradation of PEDF in proliferative diabetic retinopathy. EXP EYE RES. 2023 Sep;234:109597 WB ;Mouse,Human. 37490993