abcam

Product datasheet

Anti-PEDF antibody ab14993

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概述

产品名称	Anti-PEDF抗体
描述	**兔多克隆抗体**to PEDF
宿主	Rabbit
特异性	Recognizes PEDF at 50kDa. Additional bands were detected at 66 and 76kDa, which were competed away by immunogen. These bands may be post translationally modified forms.
经测试应用	**适用于:** WB
种属反应性	**与反应:** Human
免疫原	Recombinant full length protein (His-tag) corresponding to Human PEDF. Expressed in baby hamster kidney cells. Database link: **P36955**
阳性对照	WB: RIPA lysates from Y79 cells.
常规说明	For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer. The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

性能

形式	Liquid
存放说明	Shipped at 4°C. Add glycerol to a final volume of 50% for extra stability and aliquot. Store at -20°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.40 Preservative: 0.05% Sodium azide Constituents: 0.184% Tris glycine, 30% Glycerol, 0.87% Sodium chloride
纯度	Protein A purified
克隆	**多克隆**

同种型 IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab14993于以下的经测试应用**

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★★★★☆ (1)	Use a concentration of 0.5 - 2 µg/ml. Detects a band of approximately 50 kDa (predicted molecular weight: 50 kDa).

靶标

功能 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.

组织特异性 Retinal pigment epithelial cells and blood plasma.

序列相似性 Belongs to the serpin family.

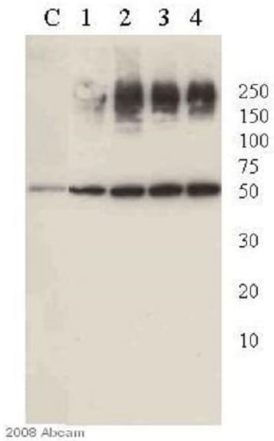
发展阶段 Expressed in quiescent cells.

结构域 The N-terminal (AA 44-121) exhibits neurite outgrowth-inducing activity. The C-terminal exposed loop (AA 382-418) is essential for serpin activity.

翻译后修饰 The N-terminus is blocked. Extracellular phosphorylation enhances antiangiogenic activity. N- and O-glycosylated. O-glycosylated with a core 1 or possibly core 8 glycan.

细胞定位 Secreted. Melanosome. Enriched in stage I melanosomes.

图片



Western blot - Anti-PEDF antibody (ab14993)

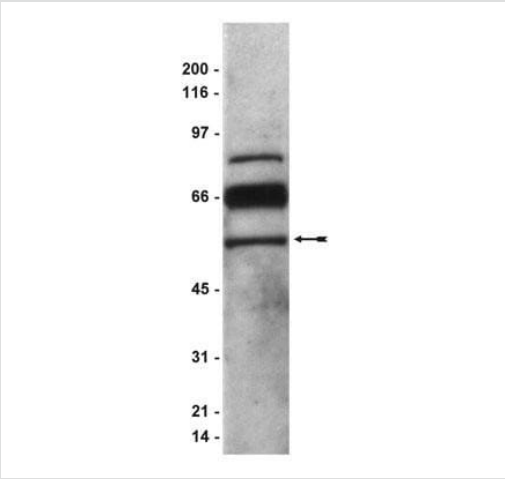
Kindly submitted by Dr John Wardale.

Lanes 1-4: Cartilage lysates from 4 osteoarthritic knee replacement donors (100 mg (wet weight) powdered cartilage/ 1 ml RIPA buffer, extracted for 24 hrs at 4°C)

Lane C: Positive control (overexpressing cell line)

Anticipated band at approx 50kDa detected. Specificity of antibody allowed relatively long exposure and quite high concentrations of primary and secondary antibodies to be used with negligible background. Good results were also obtained with unreduced samples.

The additional approx 250kDa band is likely to be due to PEDF crosslinked or bound to high molecular weight matrix proteins (collagen, aggrecan) which are present in cartilage lysates. Reduction using beta mercaptoethanol reduced some, but not all high MW staining and increased the intensity of the 50kDa band.



Western blot - Anti-PEDF antibody (ab14993)

Anti-PEDF antibody (ab14993) at 1 µg/ml + Y79 (Human retinoblastoma cell line) cell lysate in RIPA buffer at 40 µg

Secondary

IgG (HRP) goat anti-rabbit

Predicted band size: 50 kDa

Chemiluminescence detection system.

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