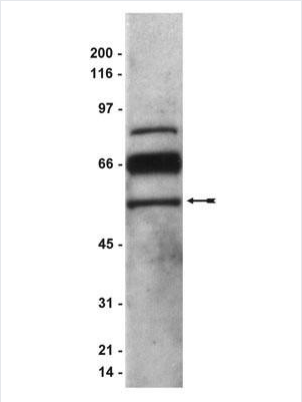
PEDF Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PEDF, Polyclonal Antibody
Full Product Name	PEDF (Pigment Epithelial Derived Factor) (AP)
Product Gene Name	anti-PEDF antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human PEDF at ~50kD. Additional bands were detected at 66 and 76kD, which were competed away by immunogen. These bands may be post-translationally modified forms. Species Crossreactivity: mouse
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	46,312 Da
Chromosome Location	Chromosome: 17; NC_000017.10 (1665259..1680859). Location: 17p13.3
OMIM	172860
3D Structure	ModBase 3D Structure for P36955
Immunogen	His tagged fusion protein corresponding to full length human PEDF (Pigment Epithelial Derived Factor) expressed in baby hamster kidney cells.
Conjugate	AP
Note	Preservative Free
Product Categories/Family for anti-PEDF antibody	Antibodies; Protease Inhibitors
Applications Tested/Suitable for anti-PEDF antibody	Western Blot (WB)
Application Notes for anti-PEDF antibody	Applications are based on unconjugated antibody. WB: 0.5-2ug/ml detects PEDF in 40ug of RIPA lysates from Y79 cells. 40ug of Y79 cell lysate was resolved by electrophoresis, transferred to nitrocellulose and probed with. Optimal dilutions to be determined by the researcher.
Related Product Information for anti-PEDF antibody	Pigment epithelium-derived factor (PEDF) was first identified as a 50kD secreted protein in conditioned medium from cultured fetal human retinal pigment epithelium (RPE) cells. More recently, PEDF was shown to have neurotrophic activity in the retina in vivo. PEDF is also a neurotrophic and neuroprotective factor in other systems, including cultured cerebellar granule cells, primary hippocampal neurons, spinal cord motor neurons and amphibian photoreceptors cultured in the absence of RPE cells. The binding of PEDF to retinoblastoma and cerebellar granule cells may be receptor-mediated. PEDF has been shown to be a potent inhibitor of angiogenesis in endothelial cell cultures and in rat cornea and retina in vivo.

Product References and Citations for anti-PEDF antibody	1. Karakousis, P.C., et al., Molecular Vision 7: 154-163 (2001). 2. Tombran-Tink, J., et al., 1991, Exp. Eye Res., 53: 411-414. 3. Cayouette, M., et al., 1999, Neurobiol. Dis., 6: 523-532. 4. Karakousis, P.C., et al., 2001, Mol Vis., 7: 154-163. 5. Dawson, D.W., et al., 1999, Science, 285: 245-248. 6. Stellmach, V., et al., 2001, Proc. Natl. Acad. Sci. USA, 98: 2593-2597.
Other Notes	Small volumes of anti-PEDF antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PEDF purchase	MBS6492612 is an antibody targeting PEDF. Also known as PEDF (Pigment Epithelial Derived Factor) (AP). Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-PEDF antibody
Western Blot analysis of Y79 cell lysate probed with 1ug/ml of P3140.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PEDF. It may not necessarily be applicable to this product.

NCBI GI #	39725934
NCBI GeneID	5176
NCBI Accession #	NP_002606.3
UniProt Primary Accession #	P36955
UniProt Secondary Accession #	Q13236; Q2TU83; Q96CT1; Q96R01; Q9BWA4; F1T092
UniProt Related Accession #	P36955
GenBank Nucleotide #	NM_002615
NCBI Official Full Name	pigment epithelium-derived factor
NCBI Official Synonym Full Names	serpin peptidase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member 1
NCBI Official Symbol	SERPINF1
NCBI Official Synonym Symbols	OI6; OI12; PEDF; EPC-1; PIG35
UniProt Protein Name	Pigment epithelium-derived factor
UniProt Synonym Protein Names	Cell proliferation-inducing gene 35 protein; EPC-1; Serpin F1
Protein Family	Pigment epithelium-derived factor
UniProt Gene Name	SERPINF1
UniProt Synonym Gene Names	PEDF; PEDF
UniProt Entry Name	PEDF_HUMAN

NCBI Protein Information	pigment epithelium-derived factor; serpin F1; cell proliferation-inducing gene 35 protein; serine (or cysteine) proteinase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member 1
NCBI Summary for PEDF	The protein encoded by this gene is a member of the serpin family, although it does not display the serine protease inhibitory activity shown by many of the other serpin family members. The encoded protein is secreted and strongly inhibits angiogenesis. In addition, this protein is a neurotrophic factor involved in neuronal differentiation in retinoblastoma cells.[provided by RefSeq, Mar 2011]
UniProt Comments for PEDF	PEDF: a secreted neurotrophic protein that 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. The N-terminal (AA 44-121) exhibits neurite outgrowth-inducing activity. The C-terminal exposed loop (AA 382-418) is essential for serpin activity. Extracellular phosphorylation enhances antiangiogenic activity. Protein type: Inhibitor; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 17p13.3 Cellular Component: axon hillock; extracellular matrix; extracellular space; perinuclear region of cytoplasm; extracellular region; melanosome; basement membrane Molecular Function: serine-type endopeptidase inhibitor activity Biological Process: cell proliferation; positive regulation of neurogenesis; negative regulation of angiogenesis; ovulation cycle; retina development in camera-type eye; short-term memory; response to arsenic; negative regulation of inflammatory response; multicellular organismal development; response to acidity; kidney development; aging Disease: Osteogenesis Imperfecta, Type Vi
Research Articles on PEDF	**1.** the dynamic expression of PEDF that inversely portrays VEGF expression may imply its putative role as a physiological negative regulator of follicular angiogenesis.
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