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PDGFD Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21138a

Product Information

Application	WB, E
Primary Accession	Q9GZP0
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB52125
Calculated MW	42848

Additional Information

Gene ID	80310
Other Names	Platelet-derived growth factor D, PDGF-D, Iris-expressed growth factor, Spinal cord-derived growth factor B, SCDGF-B, Platelet-derived growth factor D, latent form, PDGFD latent form, Platelet-derived growth factor D, receptor-binding form, PDGFD receptor-binding form, PDGFD, IEGF, SCDGFB
Target/Specificity	This PDGFD antibody is generated from a rabbit immunized with a recombinant protein of human PDGFD.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PDGFD Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PDGFD
Synonyms	IEGF, SCDGFB
Function	Growth factor that plays an essential role in the regulation of embryonic development, cell proliferation, cell migration, survival and chemotaxis.

	Potent mitogen for cells of mesenchymal origin. Plays an important role in wound healing. Induces macrophage recruitment, increased interstitial pressure, and blood vessel maturation during angiogenesis. Can initiate events that lead to a mesangial proliferative glomerulonephritis, including influx of monocytes and macrophages and production of extracellular matrix (By similarity).
Cellular Location	Secreted. Note=Released by platelets upon wounding
Tissue Location	Expressed at high levels in the heart, pancreas, adrenal gland and ovary and at low levels in placenta, liver, kidney, prostate, testis, small intestine, spleen and colon. In the kidney, expressed by the visceral epithelial cells of the glomeruli. A widespread expression is also seen in the medial smooth muscle cells of arteries and arterioles, as well as in smooth muscle cells of vasa rectae in the medullary area. Expressed in the adventitial connective tissue surrounding the suprarenal artery. In chronic obstructive nephropathy, a persistent expression is seen in glomerular visceral epithelial cells and vascular smooth muscle cells, as well as de novo expression by periglomerular interstitial cells and by some neointimal cells of atherosclerotic vessels. Expression in normal prostate is seen preferentially in the mesenchyme of the gland while expression is increased and more profuse in prostate carcinoma. Expressed in many ovarian, lung, renal and brain cancer-derived cell lines

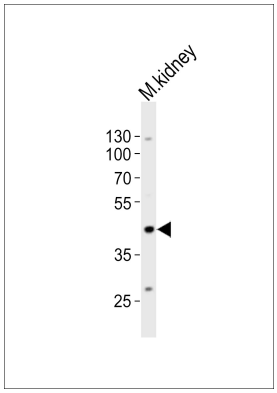
Background

Growth factor that plays an essential role in the regulation of embryonic development, cell proliferation, cell migration, survival and chemotaxis. Potent mitogen for cells of mesenchymal origin. Plays an important role in wound healing. Induces macrophage recruitment, increased interstitial pressure, and blood vessel maturation during angiogenesis. Can initiate events that lead to a mesangial proliferative glomerulonephritis, including influx of monocytes and macrophages and production of extracellular matrix (By similarity).

References

Hamada T.,et al.Biochem. Biophys. Res. Commun. 280:733-737(2001).
Bergsten E.,et al.Nat. Cell Biol. 3:512-516(2001).
LaRochelle W.J.,et al.Nat. Cell Biol. 3:517-521(2001).
Wistow G.,et al.Mol. Vis. 8:185-195(2002).
Liu B.,et al.Submitted (DEC-1998) to the EMBL/GenBank/DDBJ databases.

Images



Western blot analysis of lysate from mouse kidney tissue lysate, using PDGFD Antibody(Cat. #AP21138a). AP21138a was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20ug.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.