



PDGF-B Rabbit mAb

Catalog No	YP-rAb-17174
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,ELISA
Gene Name	PDGFB
Protein Name	Platelet-derived growth factor subunit B
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:200-1:1000; WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15° C to -25° C/1 year(Do not lower than -25° C)
Synonyms	PDGFB ; PDGF2 ; SIS ; Platelet-derived growth factor subunit B ; PDGF subunit B ; PDGF-2 ; Platelet-derived growth factor B chain ; Platelet-derived growth factor beta polypeptide ; Proto-oncogene c-Sis ; Becaplermin
Observed Band	27kD
Calculated Molecular Weight	27kD
Cell Pathway	Secreted. Released by platelets upon wounding.
Tissue Specificity	Expressed at high levels in the heart, brain (sustantia nigra), placenta and fetal kidney. Expressed at moderate levels in the brain (hippocampus), skeletal muscle, kidney and lung.
Function	Disease:A chromosomal aberration involving PDGFB is a cause of dermatofibrosarcoma protuberans (DFSP) [MIM:607907]. Translocation t(17;22)(q22;q13) with COLA1. DFSP is an uncommon, locally aggressive, but rarely metastasizing tumor of the deep dermis and subcutaneous tissue. It typically occurs during early or middle adult life and is most frequently located on the trunk and proximal extremities.,Function:Platelet-derived growth factor is a potent mitogen for cells of mesenchymal origin. Binding of this growth factor to its affinity receptor elicits a variety of cellular responses. It is released by platelets upon wounding and plays an important role in stimulating adjacent cells to grow and thereby heals the wound.,miscellaneous:A-A and B-B, as well as A-B, dimers

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can bind to the PDGF receptor.,online information:Clinical information on Regranex,pharmaceutical:Available under the name Regranex (Ortho-McNeil). Used to promote healing in diabetic neuropathic foot ulcers.,similarity:Belongs to the PDGF/VEGF growth factor family.,subunit:Antiparallel disulfide-linked dimer of non-identical (A and B) chains. Homodimers of A and B chains are implicated in transformation processes. Interacts with XLKD1.,tissue specificity:Expressed at high levels in the heart, brain (sustantia nigra), placenta and fetal kidney. Expressed at moderate levels in the brain (hippocampus), skeletal muscle, kidney and lung.,

Background

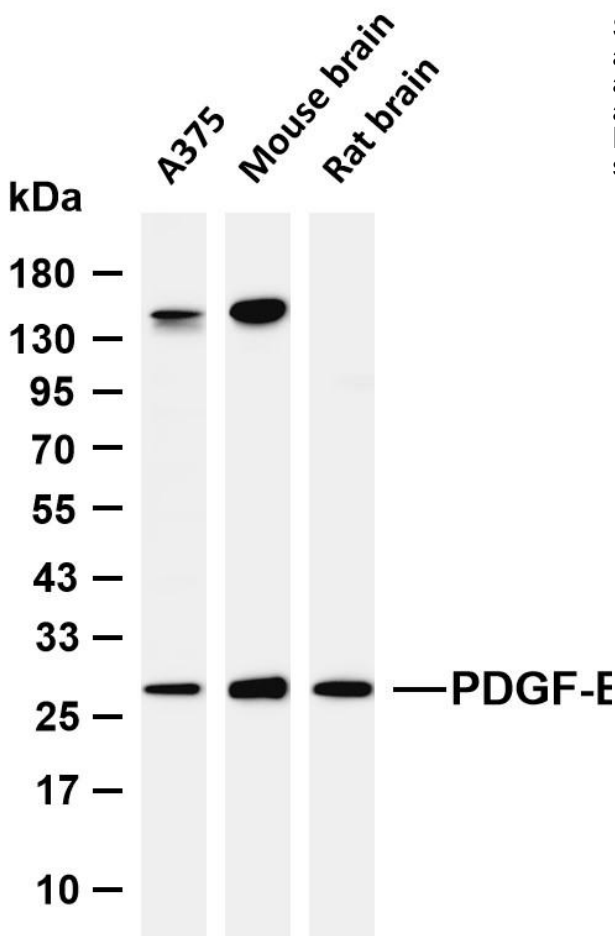
platelet derived growth factor subunit B(PDGFB) Homo sapiens This gene encodes a member of the protein family comprised of both platelet-derived growth factors (PDGF) and vascular endothelial growth factors (VEGF). The encoded preproprotein is proteolytically processed to generate platelet-derived growth factor subunit B, which can homodimerize, or alternatively, heterodimerize with the related platelet-derived growth factor subunit A. These proteins bind and activate PDGF receptor tyrosine kinases, which play a role in a wide range of developmental processes. Mutations in this gene are associated with meningioma. Reciprocal translocations between chromosomes 22 and 17, at sites where this gene and that for collagen type 1, alpha 1 are located, are associated with dermatofibrosarcoma protuberans, a rare skin tumor. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2015],

matters needing attention

Avoid repeated freezing and thawing!

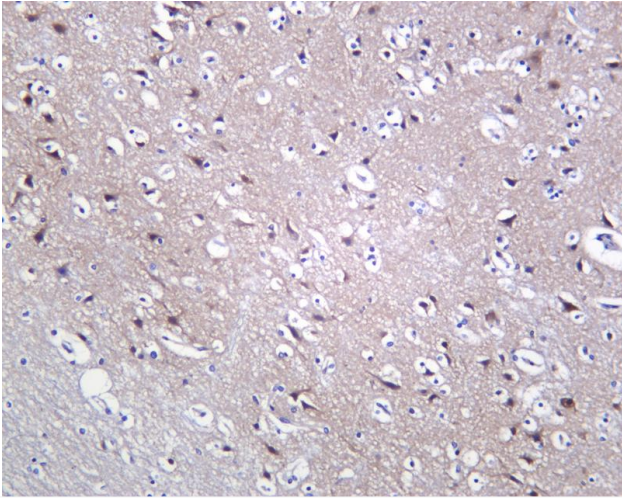
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-PDGFB antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: A375 Lane 2: Mouse brain Lane 3: Rat brain Predicted band size: 27kDa Observed band size: 27kDa





Human brain was stained with anti-PDGF-B Rabbit antibody

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