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Anti-PDGF-BB Antibody
Catalog # ABO12002

Specification

Anti-PDGF-BB Antibody - Product Information

Application	**WB**
Primary Accession	P01127
Host	**Rabbit**
Reactivity	**Human, Mouse, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Platelet-derived growth factor subunit B(PDGFB) detection. Tested with WB in Human;Mouse;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-PDGF-BB Antibody - Additional Information

Gene ID 5155

Other Names
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, PDGFB, PDGF2, SIS

Calculated MW
27283 MW KDa

Application Details
Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization
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. .

Protein Name
Platelet-derived growth factor subunit B

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
E.coli-derived human PDGF beta recombinant protein (Position: S82-T190). Human PDGF beta shares 89% amino acid (aa) sequence identity with both mouse and rat PDGF beta.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage

At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.

Sequence Similarities
Belongs to the PDGF/VEGF growth factor family.

Anti-PDGF-BB Antibody - Protein Information

Name PDGFB

Synonyms PDGF2, SIS

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 (PubMed:26599395). Required for normal proliferation and recruitment of pericytes and vascular smooth muscle cells in the central nervous system, skin, lung, heart and placenta. Required for normal blood vessel development, and for normal development of kidney glomeruli. Plays an important role in wound healing. Signaling is modulated by the formation of heterodimers with PDGFA (By similarity).

Cellular Location
Secreted. Note=Released by platelets upon wounding

Tissue Location
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

Anti-PDGF-BB Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-PDGF-BB Antibody - Images

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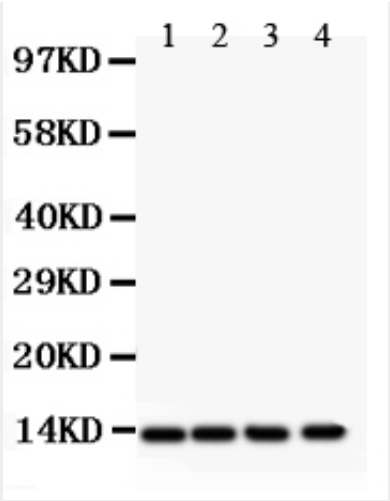

Anti- PDGF beta Picoband antibody, ABO12002, Western blottingAll lanes: Anti PDGF beta (ABO12002) at 0.5ug/mlLane 1: Rat Cardiac Muscle Tissue Lysate at 50ugLane 2: Rat Brain Tissue Lysate at 50ugLane 3: Mouse Cardiac Muscle Tissue Lysate at 50ugLane 4: HELA Whole Cell Lysate at 40ugPredicted bind size: 27KDObserved bind size: 13KD

Anti-PDGF-BB Antibody - Background

Platelet-derived growth factor subunit B is a protein that in humans is encoded by the PDGFB gene. The protein encoded by this gene is a member of the platelet-derived growth factor family. This gene product can exist either as a homodimer (PDGF-BB) or as a heterodimer with the platelet-derived growth factor alpha polypeptide (PDGF-AB), where the dimers are connected by disulfide bonds. This gene is mapped to 22q13.1. Growth factor plays an essential role in the regulation of embryonic development, cell proliferation, cell migration, survival and chemotaxis. This gene plays an important role in wound healing. Signaling is modulated by the formation of heterodimers with PDGFA.