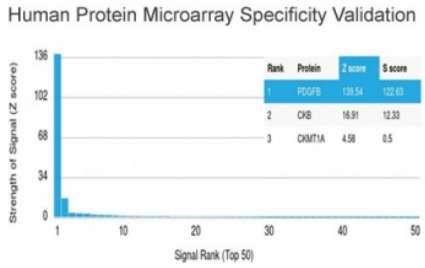
PDGF beta Antibody [clone PDGFB/3071] (V9320)

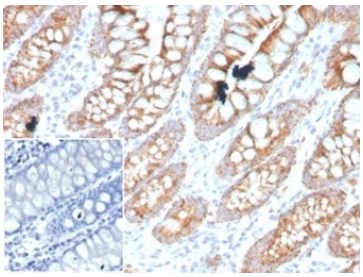
Catalog No.	Formulation	Size
V9320-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9320-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9320SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

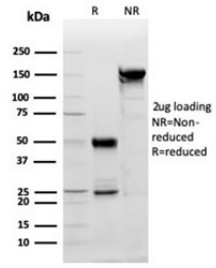
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2c, kappa
Clone Name	PDGFB/3071
Purity	Protein A/G affinity
UniProt	P01127
Localization	Cytoplasm
Applications	Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This PDGF beta antibody is available for research use only.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using PDGF beta antibody (clone PDGFB/3071). These results demonstrate the foremost specificity of the PDGFB/3071 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



IHC staining of FFPE human colon tissue with PDGF beta antibody (clone PDGFB/3071). Negative control inset: PBS instead of primary antibody to control for secondary binding. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free PDGF beta antibody (clone PDGFB/3071) as confirmation of integrity and purity.

Description

PDGF is a mitogen for mesenchyme- and glia-derived cells. It consists of two disulfide-bonded polypeptide chains, A and B, and occurs as three isoforms; PDGF AA, AB and BB. The three isoforms bind, with different affinities, to two receptor types, receptors. Evidence suggests that PDGF may function as a neurotrophic factor. Receptors for PDGF-A are expressed in oligodendrocyte progenitor cells whereas receptors for PDGF-B are expressed on neurons. These facts suggest that the different isoforms of PDGF may regulate growth and differentiation of different cell types in the developing central nervous system through paracrine and autocrine routes.

Application Notes

Optimal dilution of the PDGF beta antibody should be determined by the researcher.

Immunogen

A portion of amino acids 27-158 was used as the immunogen for the PDGF beta antibody.

Storage

Aliquot the PDGF beta antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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