PDGF beta (PDGFB) Antibody

Mouse Monoclonal Antibody [Clone PDGFB/3072]

Catalog No	Format	Size
5155-MSM2-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
5155-MSM2-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
5155-MSM2-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

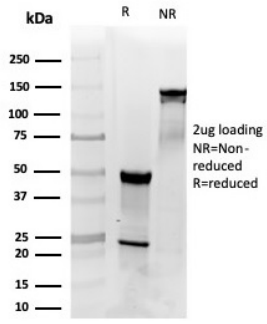
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

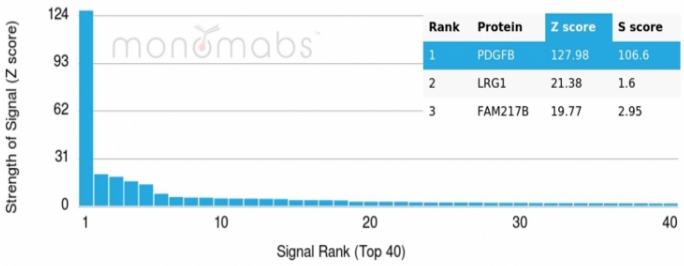
Clone	PDGFB/3072
Gene Name	PDGFB
Immunogen	Recombinant fragment of human PDGFB protein (around aa 27-158) (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2c / Kappa
Mol. Weight of Antigen	14kDa (monomeric B chain); 31-35kDa (dimer)
Cellular Localization	Secreted
Species Reactivity	Human
Positive Control	Human colon, kidney or lymph node.

**Optimal dilution for a specific application should be determined.*

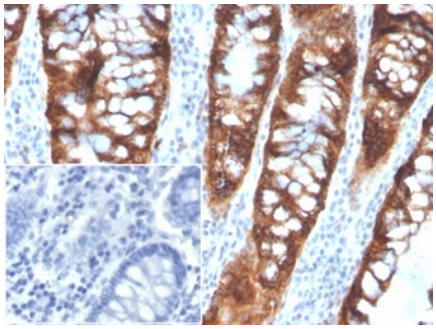
Product Images for PDGF beta (PDGFB) Antibody



SDS-PAGE Analysis of Purified PDGF beta Mouse Monoclonal Antibody (PDGFB/3072). Confirmation of Purity and Integrity of Antibody.



Analysis of Protein Array containing more than 19,000 full-length human proteinsusing PDGF beta Mouse Monoclonal Antibody (PDGFB/3072). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Formalin-fixed, paraffin-embedded human colon stained with PDGF beta Mouse Monoclonal Antibody (PDGFB/3072). Inset: PBS instead of primary antibody, secondary antibody negative control.

Specificity & Comments

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, ? and ?, which are structurally related and endowed with protein-tyrosine kinase domains. Ligand binding induces activation of the receptor kinases by formation of receptor dimers; the A subunit of PDGF binds only to ? receptors with high affinity, whereas the B subunit can bind to both ? and ? 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.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

AKT Signaling, Cardiovascular, Endothelial Cell Marker, Infectious Disease, MAPK Signaling, Mesenchymal Stem Cell Differentiation, Neural Stem Cells, Signal Transduction, Stem Cell Differentiation

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.