

## PDGFR-A (Platelet Derived Growth Factor Receptor, alpha) / CD140a Antibody

Mouse Monoclonal Antibody [Clone PDGFRA/7407]

Catalog No	Format	Size
5156-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
5156-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
5156-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

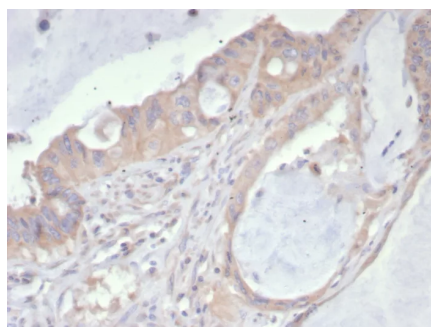
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

### Product Details

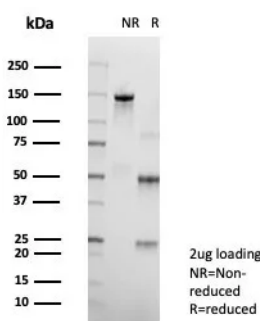
<b>Clone</b>	PDGFRA/7407
<b>Gene Name</b>	PDGFRA
<b>Immunogen</b>	Recombinant fragment (around aa1-200) of human PDGFRA protein (exact sequence is proprietary)
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG1 / Kappa
<b>Mol. Weight of Antigen</b>	170kDa
<b>Cellular Localization</b>	Membrane.
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	metastatic colon tumors and normal colon. Tumors may express a different isoform to that found in normal tissue.  Primary

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

### Product Images for PDGFR-A (Platelet Derived Growth Factor Receptor, alpha) / CD140a Antibody



Formalin-fixed, paraffin-embedded human colon cancer stained with PDGFR-A Mouse Monoclonal Antibody (PDGFRA/7407). HIER: Tris/EDTA, pH9.0, 45min. 2°C: HRP-polymer, 30min. DAB, 5min.



SDS-PAGE Analysis of Purified PDGFR-A Mouse Monoclonal Antibody (PDGFRA/7407). Confirmation of Purity and Integrity of Antibody.

### Specificity & Comments

Platelet-derived growth factor (PDGF) is a mitogen for mesenchyme- and glia-derived cells. PDGF consists of two chains, A and B, which dimerize to form functionally distinct isoforms, PDGF-AA, PDGF-AB and PDGF-BB. These three isoforms bind with different affinities to two receptor types, PDGFR- $\alpha$  and - $\beta$ , which are endowed with protein tyrosine kinase domains. PDGFR- $\alpha$  can bind to both A and B subunits of PDGF, while PDGFR- $\beta$  can only bind the B subunit. Ligand binding promotes either homo- or heterodimerization of the PDGF receptors in a specific manner. PDGF-AA induces the dimerization of two  $\alpha$  receptors, PDGF-AB induces dimerization of  $\alpha\alpha$  and  $\alpha\beta$  and PDGF-BB induces the formation of three types of dimers,  $\alpha\alpha$ ,  $\alpha\beta$  and  $\beta\beta$ . Translocation of the PDGFR- $\beta$  gene with the Tel gene is linked to chronic myelomonocytic leukemia (CMML), a myelodysplastic syndrome, and demonstrates the oncogenic potential of the PDGF receptors.

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### 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.

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### 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.

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### 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.

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### Research Areas

Cardiovascular, AKT Signaling, Angiogenesis, Infectious Disease, Neural Stem Cells, Nuclear Marker, Signal Transduction

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