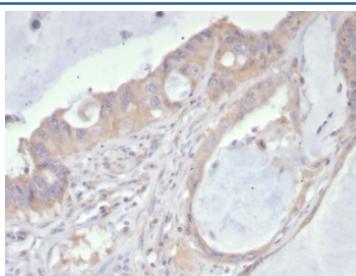


PDGFRA Antibody / Platelet Derived Growth Factor Receptor alpha [clone PDGFRA/7407] (V5049)

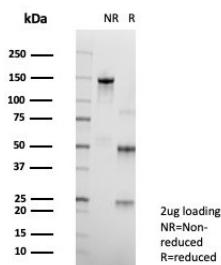
| Catalog No. | Formulation | Size |
|----------------|---|--------|
| V5049-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 100 ug |
| V5049-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 20 ug |
| V5049SAF-100UG | 1 mg/ml in 1X PBS; 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 IgG1, kappa |
| Clone Name | PDGFRA/7407 |
| Purity | Protein A/G affinity |
| UniProt | P16234 |
| Localization | Membrane |
| Applications | Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT |
| Limitations | This PDGFRA antibody is available for research use only. |



IHC staining of FFPE human colon cancer tissue with PDGFRA antibody (clone PDGFRA/7407). 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 PDGFRA antibody (clone PDGFRA/7407) as confirmation of integrity and purity.

Description

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- α and - β , which are endowed with protein tyrosine kinase domains. PDGFR- α can bind to both A and B subunits of PDGF, while PDGFR- β 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 α 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- β gene with the Tel gene is linked to chronic myelomonocytic leukemia (CMML), a myelodysplastic syndrome, and demonstrates the oncogenic potential of the PDGF receptors.

Application Notes

Optimal dilution of the PDGFRA antibody should be determined by the researcher.

Immunogen

A recombinant partial protein sequence (within amino acids 1-200) from the human protein was used as the immunogen for the PDGFRA antibody.

Storage

Aliquot the PDGFRA antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.