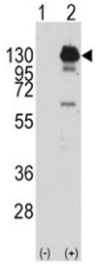
PDGFR alpha Antibody (F50656)

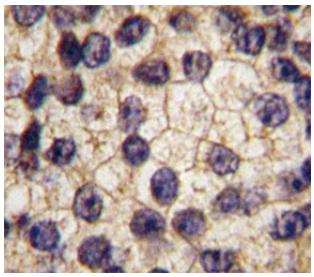
Catalog No.	Formulation	Size
F50656-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F50656-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Predicted Reactivity	Mouse, Rat, Xenopus
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P16234
Localization	Cytoplasmic, membrane
Applications	Western blot: 1:1000 IHC (Paraffin): 1:10-1:50
Limitations	This PDGFR alpha antibody is available for research use only.



PDGFR Alpha Antibody Overexpression WB. Western blot analysis of non-transfected HEK293 cells (lane 1) and HEK293 cells transiently transfected with human PDGFRA (lane 2) using PDGFR Alpha Antibody / Receptor Tyrosine Kinase Antibody demonstrates a strong immunoreactive band at approximately 120-130 kDa in the transfected sample. Minimal to no signal is observed in the non-transfected control, supporting specific recognition of PDGFRA. PDGFRA is a receptor tyrosine kinase that mediates platelet-derived growth factor signaling and regulates cellular proliferation, migration, differentiation, and survival. The detected band is consistent with recombinant expression of human PDGFRA and supports the specificity of the antibody for the target protein. Predicted molecular weight: 120-195 kDa, depending on glycosylation status and receptor maturation.



PDGFR Alpha Antibody Prostate Carcinoma IHC. Immunohistochemistry staining of FFPE human prostate carcinoma tissue using PDGFR Alpha Antibody / Receptor Tyrosine Kinase Antibody demonstrates membranous and cytoplasmic HRP-DAB brown staining within malignant epithelial cells. The staining pattern is consistent with expression of PDGFRA, a receptor tyrosine kinase that mediates platelet-derived growth factor signaling and regulates cellular proliferation, migration, differentiation, and survival. PDGFRA signaling contributes to communication between tumor cells and the surrounding microenvironment and has been extensively studied in cancer biology due to its roles in growth factor-mediated signaling and tissue remodeling. The observed staining supports expression of PDGFRA in prostate carcinoma-associated cellular populations.

Description

PDGFR alpha Antibody specifically detects PDGFRA, a cell surface tyrosine kinase receptor for members of the platelet-derived growth factor family. These growth factors are mitogens for cells of mesenchymal origin. The identity of the growth factor bound to a receptor monomer determines whether the functional receptor is a homodimer or a heterodimer, composed of both platelet-derived growth factor receptor alpha and beta polypeptides. Studies in knockout mice, where homozygosity is lethal, indicate that the alpha form of the platelet-derived growth factor receptor is particularly important for kidney development since mice heterozygous for the receptor exhibit defective kidney phenotypes.

Learn more about PDGFRA expression, platelet-derived growth factor signaling, mesenchymal development, and receptor tyrosine kinase biology on our PDGFR Alpha Antibody / Receptor Tyrosine Kinase Antibody page.

Application Notes

Titration of the PDGFR alpha antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 740-769 from the human protein was used as the immunogen for this PDGFR alpha antibody.

Storage

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

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