
anti-PDGF Receptor α

Cat #: HM1281
Rabbit polyclonal IgG
0.2 $\mu\text{g}/\mu\text{l}$, store at 4 °C

For research use only

BACKGROUND

Members of the platelet-derived growth factor family bind to two receptor types, PDGFR- α and β , which contain tyrosine kinase domains. These growth factors are mitogens for cells of mesenchymal origin. 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. Studies in knockout mice indicate that the α form of the platelet-derived growth factor receptor is particularly important for kidney development since mice heterozygous for the receptor exhibit defective kidney phenotypes.

SPECIFICITY

This antibody reacts PDGF receptor α of mouse, rat and human origin by Western blotting, immunoprecipitation, immunohistochemistry (including paraffin-embedded sections); non cross-reactive with PDGF receptor β

Molecular Weight of PDGFR α : 185 kDa.
Western blotting positive controls: NIH/3T3 cells.

IMMUNOGEN

A peptide at the carboxy terminus of human PDGF receptor α .

STORAGE

This antibody is stable for 12 months when stored at 2-8°C.

REFERENCES

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