

Rat Alpha-type platelet-derived growth factor receptor (PDGFRA) ELISA Kit

Catalog No: #EK8610

Package Size: #EK8610-1 48T #EK8610-2 96T

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

Description

Product Name	Rat Alpha-type platelet-derived growth factor receptor (PDGFRA) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (<i>Rattus norvegicus</i>)
Other Names	CD140A; MGC74795; PDGFR2; RHEPDGFRA; CD140 antigen-like family member A PDGF-R-alpha PDGFRA/BCR fusion platelet-derived growth factor receptor alpha rearranged-in-hypereosinophilia-platelet derived
Accession No.	P20786
Uniprot	P20786
GeneID	25267;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.056 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate PDGFRA in samples. An antibody specific for PDGFRA has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPDGFRA present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PDGFRA is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of PDGFRA bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:Alpha-type platelet-derived growth factor receptor is 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.

Note: This product is for in vitro research use only