

Human PDGFRA/CD140a ELISA Kit | PDGFRA/CD140a elisa kit

Human PDGFRA/CD140a ELISA Kit

CATALOG #
AAA258372

REACTIVITY
Human

PRODUCT SYNONYMS

PDGFRA/CD140a; Human PDGFRA/CD140a ELISA Kit; PDGFRA ELISA Kit; Human; platelet-derived growth factor receptor; alpha polypeptide; CD140A ELISA Kit; PDGFR-2 ELISA Kit; PDGFR2 ELISA Kit; RHEPDGFRA ELISA Kit; PDGFRA/CD140a elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	For the quantitative determination of Human PDGFRA/CD140a concentration in serum.
Assay Type	Solid Phase Sandwich ELISA (quantitative)
Sample Types	Serum
Detection Range	109.38-7000pg/mL
Sensitivity	86.73pg/mL
Conjugation	HRP
Materials Provided	1. 96 well microplate coated with Capture Antibody 2. Detection Antibody conjugated to HRP 3. Standards 4. Wash Buffer Concentrate 5. Dilution Buffer Concentrate 6. Color Reagent A 7. Color Reagent B 8. Stop Solution

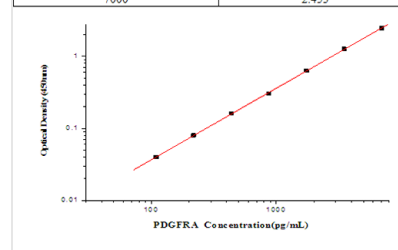
IMAGES

Recombinant human			
IL-1	IL-2	IL-33	IL-10
IL-8	TNF- α	IL-4	IL-6
IFN- γ	MIP-1 β	TIMP-1	TIMP-2
GM-CSF	SCF	PDGF	VEGF

Application Data

This assay recognizes both recombinant and natural Human PDGFRA. The factors listed below were prepared at 50ng/mL in dilution buffer and assayed for cross-reactivity. No cross-reactivity was observed.

Concentration (pg/mL)	Zero standard subtracted OD
0	0
109.38	0.040
218.75	0.080
437.5	0.160
875	0.305
1750	0.629
3500	1.265
7000	2.453



Standard Curve (Sample)

This standard curve is only for demonstration purposes. A standard curve should be generated for each assay.

ADDITIONAL INFORMATION

Related Product Information for PDGFRA/CD140a elisa kit	This PDGFRA ELISA Kit, Human is an enzyme-linked immunosorbent assay for the quantitative measurement of Human PDGFRA protein in Serum. It contains recombinant Human PDGFRA, and antibodies raised against the recombinant protein. This ELISA kit is complete and ready-to-use. Background: PDGFRA, also known as CD140a, together with the structurally homolog protein PDGFRB (CD140b), are cell surface receptors for members of the platelet-derived growth factor family. They are members of the class III subfamily of receptor tyrosine kinase (RTKs) with the similar structure characteristics of five immunoglobulin-like domains in their extracellular region and a split kinase domain in their intracellular region. PDGFRA is expressed in oligodendrocyte progenitor cells and mesothelial cell, and binds all three ligand isoforms PDGF-AA, PDGF-BB and PDGF-AB with high affinity, whereas PDGFRB dose not bind PDGF-AA. PDGFRA plays an essential role in regulating proliferation, chemotaxis and migration of mesangial cells. Recent studies have indicated that PDGFRA acts as a critical mediator of signaling in testis organogenesis and Leydig cell differentiation, and in addition, particularly important for kidney development. Additionally, PDGFRA is involved in tumor angiogenesis and maintenance of the tumor microenvironment and has been implicated in development and metastasis of Hepatocellular carcinoma (HCC). PDGFRA may represent a potential therapeutic target in thymic tumours. PDGFRA gene amplification rather than gene mutation may be the underlying genetic mechanism driving PDGFRA overexpression in a portion of gliomas.
References	Oseini AM, et al. (2009) PDGFRalpha: a new therapeutic target in the treatment of hepatocellular carcinoma. Expert Opin Ther Targets. 13(4): 443-54. Meister M, et al. (2009) Expression and mutational status of PDGFR in thymic tumours. Anticancer Res. 29(10): 4057-61. Martinho O, et al. (2009) Expression, mutation and copy number analysis of platelet-derived growth factor receptor A (PDGFRA) and its ligand PDGFA in gliomas. Br J Cancer. 101(6): 973-82.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.