Mouse Platelet-Derived Growth Factor Soluble Receptor α,PDGFsR-α ELISA kit

Product Code	CSB-E04699m
Protein Biological Process 2	chemokine
Abbreviation	PDGFRA
Protein Biological Process 1	Immunity
Target Name	platelet-derived growth factor receptor, alpha polypeptide
Uniprot No.	P26618
Alias	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
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Protein Biological Process 3	Chemotaxis
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	15.6 pg/mL-1000 pg/mL
Sensitivity	3.9 pg/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Cancer
Gene Names	Pdgfra
Tag Info	quantitative
Protein Description	Sandwich
Description	This Mouse PDGFRA ELISA Kit was designed for the quantitative measurement of Mouse PDGFRA protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 15.6 pg/mL-1000 pg/mL and the sensitivity is 3.9 pg/mL.

Target Details

This gene encodes 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.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of mouse PDGFsR-α in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

	Sample	Serum(n=4)
1:1	Average %	89
	Range %	86-93
1:2	Average %	97
	Range %	92-101
1:4	Average %	91
	Range %	88-97
1:8	Average %	92
	Range %	84-96

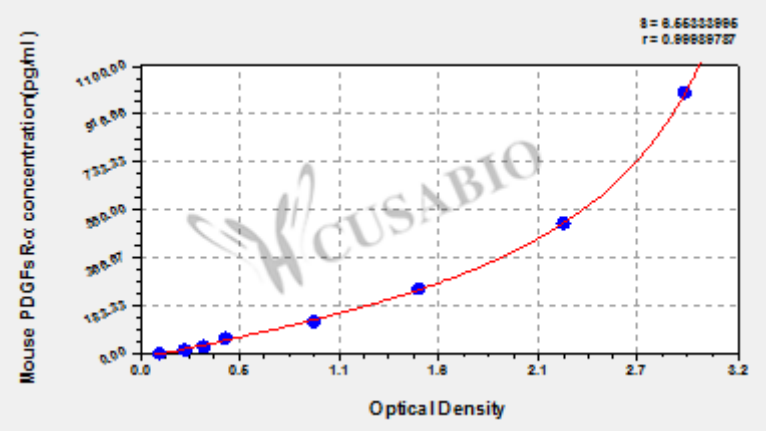
Recovery

The recovery of mouse PDGFsR-α spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	93	88-98
EDTA plasma (n=4)	99	96-105

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



pg/ml	OD1	OD2	Average	Corrected
1000	2.795	3.012	2.904	2.787
500	2.214	2.304	2.259	2.142
250	1.436	1.550	1.493	1.376
125	0.899	0.974	0.937	0.820
62.5	0.472	0.461	0.467	0.350
31.25	0.351	0.342	0.347	0.230
15.6	0.244	0.253	0.249	0.132
0	0.113	0.120	0.117	

Msds

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