

## Rat Platelet Derived Growth Factor Receptor Alpha (PDGFRa) ELISA Kit | PDGFRa elisa kit

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| CATALOG #<br><b>AAA185465</b> | REACTIVITY<br><b>Rat</b> |
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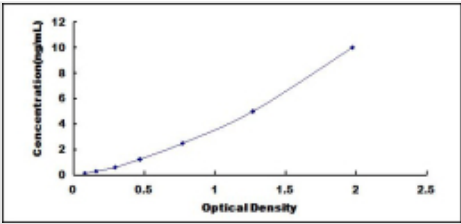
### PRODUCT SYNONYMS

Platelet Derived Growth Factor Receptor Alpha (PDGFRa); Rat Platelet Derived Growth Factor Receptor Alpha (PDGFRa) ELISA Kit; CD140a; PDGFR2; Rhe-PDGFRa; CD140 antigen-like family member A; Platelet-derived growth factor receptor 2; Alpha-type platelet-derived growth factor receptor; PDGFRa elisa kit

### PRODUCT SPECIFICATIONS

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| Reactivity                                        | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Specificity                                       | This assay has high sensitivity and excellent specificity for detection of Platelet Derived Growth Factor Receptor Alpha (PDGFRa).<br>No significant cross-reactivity or interference between Platelet Derived Growth Factor Receptor Alpha (PDGFRa) and analogues was observed.                                                                                                                                                                                                           |
| Sequence Length                                   | 743                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Assay Type                                        | Double-antibody Sandwich                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Samples                                           | Tissue Homogenates, Cell Lysates and Other Biological Fluids                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Detection Range                                   | 0.156-10ng/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Sensitivity                                       | < 0.056ng/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Application                                       | Enzyme-linked immunosorbent assay for Antigen Detection.                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Intra-assay Precision (Precision within an assay) | 3 samples with low, middle and high level Platelet Derived Growth Factor Receptor Alpha (PDGFRa) were tested 20 times on one plate, respectively.                                                                                                                                                                                                                                                                                                                                          |
| Inter-assay Precision (Precision between assays)  | 3 samples with low, middle and high level Platelet Derived Growth Factor Receptor Alpha (PDGFRa) were tested on 3 different plates, 8 replicates in each plate.                                                                                                                                                                                                                                                                                                                            |
| CV(%) =                                           | SD/meanX100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Intra-Assay                                       | CV<10%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Inter-Assay                                       | CV<12%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Preparation and Storage                           | The stability of 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.<br>To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end. |

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| Related Product Information for PDGFRA elisa kit | The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Platelet Derived Growth Factor Receptor Alpha (PDGFRA). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Platelet Derived Growth Factor Receptor Alpha (PDGFRA). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Platelet Derived Growth Factor Receptor Alpha (PDGFRA), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Platelet Derived Growth Factor Receptor Alpha (PDGFRA) in the samples is then determined by comparing the O.D. of the samples to the standard curve. |
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NCBI AND UNIPROT INFORMATION

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|----------------------------------|---------------------------------------------------------|
| NCBI GI #                        | 5453870                                                 |
| NCBI GeneID                      | 5156                                                    |
| NCBI Accession #                 | NP_006197.1                                             |
| NCBI GenBank Nucleotide #        | NM_006206.5                                             |
| UniProt Accession #              | P16234; Q6P4H5; Q96KZ7; Q9UD28; B2RE69; E9PBH0          |
| Molecular Weight                 | 82,809 Da                                               |
| NCBI Official Full Name          | platelet-derived growth factor receptor alpha isoform 1 |
| NCBI Official Synonym Full Names | platelet derived growth factor receptor alpha           |
| NCBI Official Symbol             | PDGFRA                                                  |
| NCBI Official Synonym Symbols    | CD140A; PDGFR2; PDGFR-2                                 |
| NCBI Protein Information         | platelet-derived growth factor receptor alpha           |
| UniProt Protein Name             | Platelet-derived growth factor receptor alpha           |
| UniProt Gene Name                | PDGFRA                                                  |
| UniProt Synonym Gene Names       | PDGFR2; RHEPDGFRA; PDGF-R-alpha; PDGFR-alpha; PDGFR-2   |

**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.