

## Product datasheet for **AP21128PU-N**

### PDGF Receptor alpha (PDGFRA) Rabbit Polyclonal Antibody

#### Product data:

|                         |   |
|-------------------------|---|
| Product Type:           | Primary Antibodies  |
| Applications:           | WB  |
| Recommended Dilution:   | <b>Western blot:</b> 1/500 - 1/1000.  |
| Reactivity:             | Human, Mouse, Rat   |
| Host:                   | Rabbit  |
| Clonality:              | Polyclonal  |
| Specificity:            | This antibody detects endogenous levels of PDGFR-alpha protein. (region surrounding Ile843)   |
| Formulation:            | Phosphate buffered saline (PBS), pH 7.2.<br>State: Aff - Purified<br>State: Liquid purified Ig fraction<br>Preservative: 0.05% sodium azide |
| Concentration:          | 1.0 mg/ml   |
| Purification:           | Affinity chromatography (> 95% (by SDS-PAGE)  |
| Conjugation:            | Unconjugated  |
| Storage:                | Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.<br>Avoid repeated freezing and thawing.                        |
| Stability:              | Shelf life: one year from despatch.   |
| Predicted Protein Size: | ~ 140, 190 kDa  |
| Gene Name:              | platelet derived growth factor receptor alpha   |
| Database Link:          | <a href="#">Entrez Gene 18595 Mouse</a> <a href="#">Entrez Gene 25267 Rat</a> <a href="#">Entrez Gene 5156 Human P16234</a>                 |



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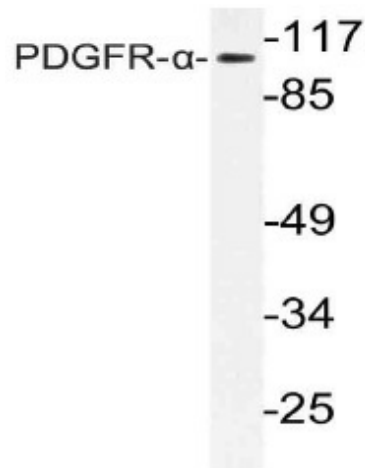
**Background:** Platelet-derived growth factor receptors exhibit tyrosineprotein kinase activity and have been implicated in the control of cell proliferation, survival and migration. PDGF receptors, PDGFR-alpha and PDGFR-beta, have 5 extracellular immunoglobulin-like domains and an intracellular tyrosine kinase domain. Upon binding a PDGF, the receptors form homo-and heterodimers. Dimerization of the receptors results in phosphorylation in the complex. More than 10 different SH2-domain-containing molecules have been shown to bind to different autophosphorylation sites in the PDGFalpha and beta receptors. PDGF alpha receptors are expressed in oligodendrocyte progenitor cells and PDGF beta receptors are expressed on neurons.

**Synonyms:** PDGF-R-alpha, PDGF Receptor alpha

**Protein Families:** Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase, Transmembrane

**Protein Pathways:** Calcium signaling pathway, Colorectal cancer, Cytokine-cytokine receptor interaction, Endocytosis, Focal adhesion, Gap junction, Glioma, MAPK signaling pathway, Melanoma, Pathways in cancer, Prostate cancer, Regulation of actin cytoskeleton

**Product images:**



Western blot (WB) analysis of PDGFR-alpha antibody (Cat.-No.: AP21128PU-N) in extracts from Jurkat cells.