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Datasheet for ABIN2728534

## PDGFA Protein (Transcript Variant 2)

### 1 Image

#### Overview

Quantity:	10 µg
Target:	PDGFA
Protein Characteristics:	Transcript Variant 2
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	Functional Studies (Func), Antibody Production (AbP), Standard (STD), Protein Interaction (PI)

#### Product Details

Specificity:	Optimal preservation of protein structure, post-translational modifications and functions.
Characteristics:	<ul style="list-style-type: none"><li>• Recombinant human PDGFA (transcript variant 2) protein expressed in E. coli.</li><li>• Produced with end-sequenced ORF clone</li><li>• Tested for bioactivity.</li></ul>
Purity:	> 95 % as determined by SDS-PAGE and Coomassie blue staining
Endotoxin Level:	Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).
Biological Activity Comment:	ED50 as determined by the dose-dependent stimulation of thymidine uptake by Balb/c 3T3 cells is less than or equal to 1 ng/ml, corresponding to a specific activity of > 1 x 10 <sup>6</sup> units/mg.

#### Target Details

Target:	PDGFA
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## Target Details

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Alternative Name: [Pdgfa \(PDGFA Products\)](#)

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Background: This gene encodes a member of the protein family comprised of both platelet-derived growth factors (PDGF) and vascular endothelial growth factors (VEGF). The encoded preproprotein is proteolytically processed to generate platelet-derived growth factor subunit A, which can homodimerize, or alternatively, heterodimerize with the related platelet-derived growth factor subunit B. These proteins bind and activate PDGF receptor tyrosine kinases, which play a role in a wide range of developmental processes. Alternative splicing results in multiple transcript variants.

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Molecular Weight: 28.5 kDa

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NCBI Accession: [NP\\_002598](#)

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Pathways: [RTK Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Smooth Muscle Cell Migration](#), [Platelet-derived growth Factor Receptor Signaling](#)

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## Application Details

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Application Notes: Recombinant human proteins can be used for:  
Native antigens for optimized antibody production  
Positive controls in ELISA and other antibody assays  
Protein-protein interaction  
In vitro biochemical assays and cell-based functional assays

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Restrictions: For Research Use only

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## Handling

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Buffer: Lyophilized from a 0.2  $\mu$ M filtered solution of 20 mM phosphate buffer, 100 mM NaCl, pH 7.2

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Handling Advice: Resuspend the protein in the desired concentration in proper buffer

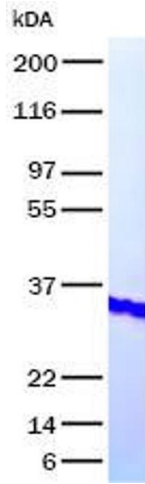
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Storage: -80 °C

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Storage Comment: Store at -80°C. Thaw on ice, aliquot to individual single-use tubes, and then re-freeze immediately. Only 2-3 freeze thaw cycles are recommended.

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### Western Blotting

**Image 1.** Validation with Western Blot