

Product datasheet

Recombinant human PDGFR beta protein ab155703

2 Images

Overview

<b>Product name</b>	Recombinant human PDGFR beta protein
<b>Protein length</b>	Protein fragment

Description

<b>Nature</b>	Recombinant
<b>Source</b>	HEK 293 cells
<b>Amino Acid Sequence</b>	
<b>Accession</b>	<a href="#">P09619</a>
<b>Species</b>	Human

<b>Sequence</b>	<p>LVVTPPGPELVLNVSSTFVLTCSGSAPVWVERMSQE          PPQEMAKAQDGTFS SVLTLTNLTG          LDTGEYFCTHNSRGGLETDERKRLYIFVPDPTVGFLPN          DAEELFIFLTEITEITIPCRVT          DPQLVVTLHEKKGDVALPVPYDHQRG          FSGIFEDRSYICKTTIGDREVSDAYWYRLQVS          SINVSVNAVQTVVR          QGENITLMCIVIGNEVVNFEWTYPRKESGRLVEPVTFD          LLDMPYHIRS          ILHIPSAELEDSTGTYTCNVTESVNDHQDEKAINITVVES          GYVRLGGEVGT LQFAELHR          SRTLQVVFEAYPPPTVLWFKDNRTLGDSSAGEIALSTR          NV SETRYVSELT LVRVKVAEAG          HYTMRAFHEDA EVQLSFQLQINPVRVL          ELSESHPDSTGEQTVRCRGRGMPQPNIWSACR          DLKRCPRELPPTLLGN          SSEEESQLETNVTYWEEEQEFVSTLRLQHVD RPLS          VRCTLRN AVGQ DTQEVIVPHSLPF</p>
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<b>Molecular weight</b>	57 kDa including tags
<b>Amino acids</b>	33 to 530
<b>Tags</b>	His tag C-Terminus

Specifications

Our [Abpromise guarantee](#) covers the use of **ab155703** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	SDS-PAGE
<b>Endotoxin level</b>	< 1.000 Eu/μg
<b>Purity</b>	> 95 % SDS-PAGE. Lyophilized from 0.22 μm filtered solution
<b>Form</b>	Lyophilised

## Preparation and Storage

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**Stability and Storage** Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 7.40

Constituents: 95% PBS, 5% Trehalose

This product is an active protein and may elicit a biological response in vivo, handle with caution.

**Reconstitution** It is recommended to reconstitute the lyophilized protein in 100 μl sterile deionized water to a final concentration of 1 mg/ml. Solubilize for 30 to 60 minutes at room temperature with occasional gentle mixing. Carrier protein (0.1% HSA or BSA) is strongly recommended for further dilution and long term storage.

## General Info

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**Function** Receptor that binds specifically to PDGFB and PDGFD and has a tyrosine-protein kinase activity. Phosphorylates Tyr residues at the C-terminus of PTPN11 creating a binding site for the SH2 domain of GRB2.

**Involvement in disease** Note=A chromosomal aberration involving PDGFRB is found in a form of chronic myelomonocytic leukemia (CMML). Translocation t(5;12)(q33;p13) with EVT6/TEL. It is characterized by abnormal clonal myeloid proliferation and by progression to acute myelogenous leukemia (AML).

Note=A chromosomal aberration involving PDGFRB may be a cause of acute myelogenous leukemia. Translocation t(5;14)(q33;q32) with TRIP11. The fusion protein may be involved in clonal evolution of leukemia and eosinophilia.

Note=A chromosomal aberration involving PDGFRB may be a cause of juvenile myelomonocytic leukemia. Translocation t(5;17)(q33;p11.2) with SPECC1.

Defects in PDGFRB are a cause of myeloproliferative disorder chronic with eosinophilia (MPE) [MIM:131440]. A hematologic disorder characterized by malignant eosinophils proliferation.

Note=A chromosomal aberration involving PDGFRB is found in many instances of myeloproliferative disorder chronic with eosinophilia. Translocation t(5;12) with ETV6 on chromosome 12 creating an PDGFRB-ETV6 fusion protein.

Note=A chromosomal aberration involving PDGFRB may be the cause of a myeloproliferative disorder (MBD) associated with eosinophilia. Translocation t(1;5)(q23;q33) that forms a PDE4DIP-PDGFRB fusion protein.

**Sequence similarities** Belongs to the protein kinase superfamily. Tyr protein kinase family. CSF-1/PDGF receptor subfamily.

Contains 5 Ig-like C2-type (immunoglobulin-like) domains.

Contains 1 protein kinase domain.

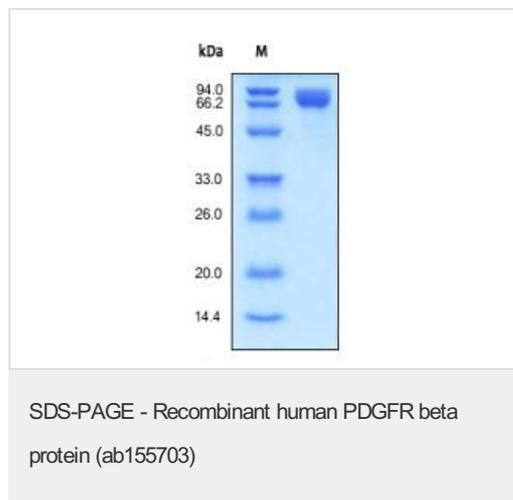
**Post-translational** Autophosphorylated. Dephosphorylated by PTPRJ at Tyr-751, Tyr-857, Tyr-1009 and Tyr-1021.

## modifications

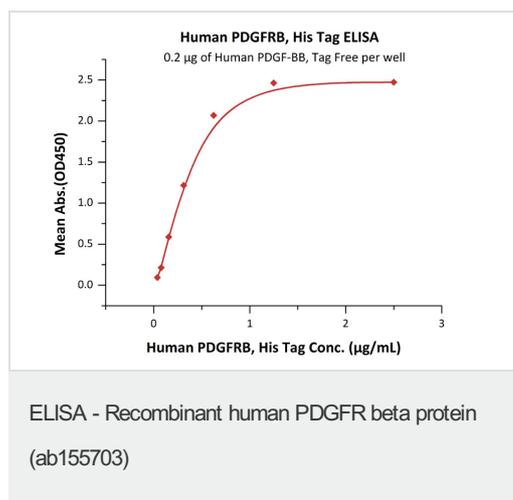
## Cellular localization

Membrane.

## Images



The purity of ab155703 was determined by SDS-PAGE of reduced ab155703 and stained overnight with Coomassie Blue.



Immobilized Human PDGF-BB, Tag Free at 2 µg/mL (100 µL/well) can bind Human PDGFRB, His Tag (ab155703) with a linear range of 0.039-0.625 µg/mL

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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