abcam

Product datasheet

Recombinant human PDGFR beta protein (Active) ab155703

2 Images

Description

Product name	Recombinant human PDGFR beta protein (Active)
Biological activity	Measured by its binding ability in a functional ELISA. 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
Purity	> 95 % SDS-PAGE. Lyophilized from 0.22 µm filtered solution
Endotoxin level	< 1.000 Eu/µg
Expression system	HEK 293 cells
Accession	P09619
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	LVVTPPGPELVLNVSSTFVLTCSGSAPVVWERMSQEPPQ EMAKAQDGTFS SVLTLTNLTG LDTGEYFCTHNDSRGLETDERKRLYIFVPDPTVGFLPN DAEELFIFLTEITEITIPCRVT DPQLVVTLHEKKGDVALPVPYDHQRG FSGIFEDRSYICKTTIGDREVDSDAYYVYRLQVS SINVSVNAVQTVVR QGENITLMCIVIGNEVVNFEWTYPRKESGRLVEPVTDFLLD MPYHI RS ILHIPSAELEDSGTYTCNVTESVNDHQDEKAINITVVESGYV RLLGEVGT LQFAELHR SRTLQVVFEAYPPPTVLWFKDNRTLGDSSAGEIALSTRNV SETRYVSELTLVRVKVAEAG HYTMRAFHEDAEVQLSFQLQINVPVRVL ELSESHPDSGEQTVRCRGRGMPQPNIIWSACR DLKRCPRELPPTLLGN SSEEESQLETNVTYWEEEQEFEVVSTLRLQHVDRPLSVR CTLRN AVGQ DTQEVIVVPHSLPF

Predicted molecular weight	57 kDa including tags
Amino acids	33 to 530
Tags	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.

Applications	ELISA SDS-PAGE
Form	Lyophilized
Additional notes	This product is stable after storage at: -20°C to -70°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution.

Preparation and Storage

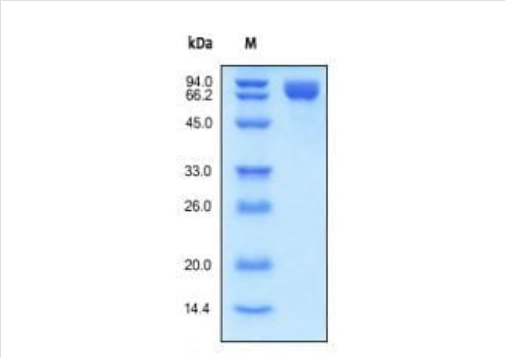
Stability and Storage	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. Please see notes section. pH: 7.40 Constituents: 95% PBS, 5% Trehalose This product is an active protein and may elicit a biological response in vivo, handle with caution.
Reconstitution	Reconstitute with sterile deionized water to a concentration of 500 µg/ml.

General Info

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.

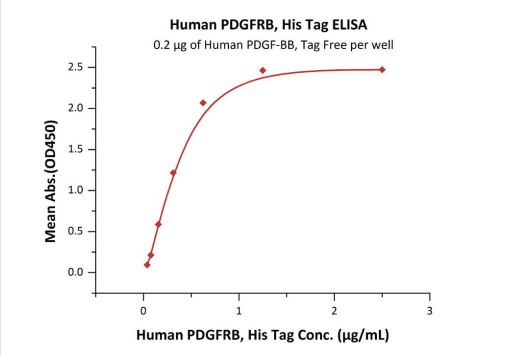
Sequence similarities	Belongs to the protein kinase superfamily. Tyr protein kinase family. CSF-1/PDGF receptor subfamily. Contains 5 Ig-like C2-type (immunoglobulin-like) domains. Contains 1 protein kinase domain.
Post-translational modifications	Autophosphorylated. Dephosphorylated by PTPRJ at Tyr-751, Tyr-857, Tyr-1009 and Tyr-1021.
Cellular localization	Membrane.

Images



SDS-PAGE - Recombinant human PDGFR beta protein (ab155703)

The purity of ab155703 was determined by SDS-PAGE of reduced ab155703 and stained overnight with Coomassie Blue. The protein migrates as 95-100 kDa due to glycosylation.



ELISA - Recombinant human PDGFR beta protein (ab155703)

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.

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