

Product datasheet for PH306377

PDGF Receptor beta (PDGFRB) (NM_002609) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PDGFRB MS Standard C13 and N15-labeled recombinant protein (NP_002600)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC206377
Predicted MW:	123.8 kDa
Protein Sequence:	>RC206377 representing NM_002609 Red=Cloning site Green=Tags(s)

MRLPGAMPALALKGELLLSLLLLLEPQISQGLVVTTPGPPELVLVNSSTFVLTCSGSAPVWERMSEPP
QEMAKAQDGTFFSSVLTNLTLGLDTGEYFCTHNSRGLTDERKRLYIFVPDPTVGLPNDAAELFIFLT
EITEITIPCRVTDPLVVTLEHEKGDVALPVPYDHQGRFFGIFEDRSYICKTTIGDREVDSDAYVYRLQ
VSSINVSNAVQTVVRQGENITLMCIVIGNEVNFWEYPRKESGRLVEPVTDFLLDMPYHIRSILHIPS
AELEDSTYTCNVTESVNDHQDEKAINITVVEGYSVRLLEGEVTLQFAELHRSRTLQVVEAYPPPTVLW
FKDNRTLGDSSAGEIALSTRNVSETRYVSELTLVRVKVAEAGHYTMRAFHEDAQVLSFQLQINVPVRV
ELSEHPDSGEQTVRCRGRGMPQPNIIWSACRDLKRCPRELPPTLLGNSSEEEESQLETNVTYWEQEF
VVSTLRLQHVDRPLSVRCTLRNVAVGQDTQEVIVVPHSLPFKVVVISAIALVVLTIISLILIMLWQKKP
RYEIRWKVIESVSSDGHEYIYVDPMLPYDSTWELPRDQLVLRGTLGSGAFQVVEATAHGLSHSQA
TMKVAVKMLKSTARSEKQALMSELKIMSHLGPLNVNLLGACTKGGPIYIITEYCRYGDLVDYLHRNKHT
LQHHSDKRRPPSAELYSNALPVGLPLPSHVSLTGESDGGYMDMSKDESVDYVPMPLDMKGDVKYADIESS
YMAPYDNYVPSAPERTCRATLINEPVLSYMDLVGFSYQVANGMEFLASKNCVHRDLAARNVLICEGKLV
KICDFGLARDIMRDSNYISKGSTFLPLKWMAPESIFNSLYTTLSDVWVSGILLWEIFTLGGTPYPELPMN
EQFYNAIKRGYRMAQPAHASDEIYEIMQKCWEEKFEIRPPFSQLVLLERLLGEGYKKKYQVDEEFLRS
DHPAILRSQARLPGFHGLRSPLDTSSVLTAVQPNEGNDYIIPLPDPKPEVADEGPLGSPSLASSTLN
EVNTSSTISCDSPLEPQDEPEPEPQLELQVEPEPELEQLPDSGCPAPRAEAEDSFL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

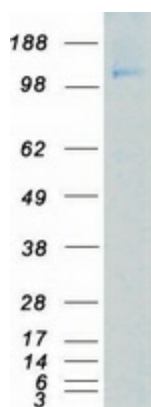
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3



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Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_002600
RefSeq Size:	5718
RefSeq ORF:	3318
Synonyms:	CD140B; IBGC4; IMF1; JTK12; KOGS; PDGFR; PDGFR-1; PDGFR1; PENTT
Locus ID:	5159
UniProt ID:	P09619 , Q59F04
Cytogenetics:	5q32
Summary:	<p>The protein encoded by this gene is a cell surface tyrosine kinase receptor for members of the platelet-derived growth factor family. These growth factors are mitogens for cells of mesenchymal origin. The identity of the growth factor bound to a receptor monomer determines whether the functional receptor is a homodimer (PDGFB or PDGFD) or a heterodimer (PDGFA and PDGFB). This gene is essential for normal development of the cardiovascular system and aids in rearrangement of the actin cytoskeleton. This gene is flanked on chromosome 5 by the genes for granulocyte-macrophage colony-stimulating factor and macrophage-colony stimulating factor receptor; all three genes may be implicated in the 5-q syndrome. A translocation between chromosomes 5 and 12, that fuses this gene to that of the ETV6 gene, results in chronic myeloproliferative disorder with eosinophilia. [provided by RefSeq, Aug 2017]</p>
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase, Transmembrane
Protein Pathways:	Calcium signaling pathway, Colorectal cancer, Cytokine-cytokine receptor interaction, Focal adhesion, Gap junction, Glioma, MAPK signaling pathway, Melanoma, Pathways in cancer, Prostate cancer, Regulation of actin cytoskeleton

Product images:



Coomassie blue staining of purified PDGFRB protein (Cat# [TP306377]). The protein was produced from HEK293T cells transfected with PDGFRB cDNA clone (Cat# [RC206377]) using MegaTran 2.0 (Cat# [TT210002]).