

Product datasheet for PH321974

IL12RB1 (NM_005535) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	IL12RB1 MS Standard C13 and N15-labeled recombinant protein (NP_005526)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC221974
Predicted MW:	73.14 kDa
Protein Sequence:	>RC221974 representing NM_005535 Red=Cloning site Green=Tags(s)

MEPLVTWVPLLFLLSRQGAACRTSECCFQDPYPDADSGSASGPRDLRCYRISSDRYECWSWQYEGPT
AGVSHFLRCCSSGRCCYFAAGSATRLQFSDQAGVSVLYTVTLWVESWARNQTEKSPEVTLQLYNSVKYE
PPLGDIKYSKLAGQLRMEWETPDNQVGAEVQFRHRTSPSPWKLGDGCPQDDDTESCLCPLEMNVAQEFQL
RRRRLGSQSSWSKWSSPVCVPPENPPQPQVRFVSEQLGQDGRRLTLKEQPTQLELPEGCQGLAPGTEV
TYRLQLHMLSCPCAKATRHLGKMPYLSGAAYNVAVISSNQFGPLNQTWHIPADTHTEPVALNISVG
TNGTTMYWPARAQSMTYCIEWQPVGQDGLATCSLTAPQDPDPAGMATYSWSRESGAMGQEKCYITIFA
SAHPEKLTWSTVLSYHFGGNASAAGTPHHVSVKNHSLDSVSDWAPSLSTCPGVLKEYVVRCRDEDS
KQVSEHPVQPTETQVTL SGLRAGVAYTVQVRADTAWLRGVWSQPQRF SIEVQVSDWL IFFASLGSFLSIL
LVGVLGYLGLNRAARHLCPPLTPCASSAIEFPGGKETWQWINPVDFQEEASLQEALVVEMSWDKGERTE
PLEKTELPEGAPELALDTELSLEDGDRCKAKM

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
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:	<u>NP_005526</u>
RefSeq Size:	2100



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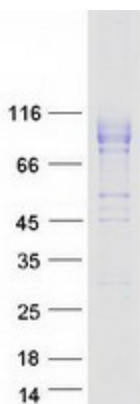
RefSeq ORF:	1986
Synonyms:	CD212; IL-12R-BETA1; IL12RB; IMD30
Locus ID:	3594
UniProt ID:	P42701
Cytogenetics:	19p13.11

Summary: The protein encoded by this gene is a type I transmembrane protein that belongs to the hemopoietin receptor superfamily. This protein binds to interleukine 12 (IL12) with a low affinity, and is thought to be a part of IL12 receptor complex. This protein forms a disulfide-linked oligomer, which is required for its IL12 binding activity. The coexpression of this and IL12RB2 proteins was shown to lead to the formation of high-affinity IL12 binding sites and reconstitution of IL12 dependent signaling. Mutations in this gene impair the development of interleukin-17-producing T lymphocytes and result in increased susceptibility to mycobacterial and Salmonella infections. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2014]

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway

Product images:



Coomassie blue staining of purified IL12RB1 protein (Cat# [TP321974]). The protein was produced from HEK293T cells transfected with IL12RB1 cDNA clone (Cat# [RC221974]) using MegaTran 2.0 (Cat# [TT210002]).