Datasheet for ABIN7555095

PTPN22 Protein (AA 1-807) (His tag)

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Overview

Quantity:	1 mg
Target:	PTPN22
Protein Characteristics:	AA 1-807
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PTPN22 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat PTPN22 Protein expressed in mammalien cells.
Sequence:	MDQREILQKF LDEAQSKKIT KEEFANEFLK LKRQSTKYKA DKTYPTTVAE KPKNIKKNRY KDILPYDYSR VELSLITSDE DSSYINANFI KGVYGPKAYI ATQGPLSTTL LDFWRMIWEY SVLIIVMACM EYEMGKKKCE RYWAEPGEMQ LEFGPFSVSC EAEKRKSDYI IRTLKVKFNS ETRTIYQFHY KNWPDHDVPS SIDPILELIW DVRCYQEDDS VPICIHCSAG CGRTGVICAI DYTWMLLKDG IIPENFSVFS LIREMRTQRP SLVQTQEQYE LVYNAVLELF KRQMDVIRDK HSGTESQAKH CIPEKNHTLQ ADSYSPNLPK STTKAAKMMN QQRTKMEIKE SSSFDFRTSE ISAKEELVLH PAKSSTSFDF LELNYSFDKN ADTTMKWQTK AFPIVGEPLQ KHQSLDLGSL LFEGCSNSKP VNAAGRYFNS KVPITRTKST PFELIQQRET KEVDSKENFS YLESQPHDSC FVEMQAQKVM HVSSAELNYS LPYDSKHQIR NASNVKHHDS SALGVYSYIP LVENPYFSSW PPSGTSSKMS LDLPEKQDGT VFPSSLLPTS STSLFSYYNS HDSLSLNSPT NISSLLNQES AVLATAPRID DEIPPPLPVR TPESFIVVEE AGEFSPNVPK SLSSAVKVKI GTSLEWGGTS

Product Details

	EPKKFDDSVI LRPSKSVKLR SPKSELHQDR SSPPPPLPER TLESFFLADE DCMQAQSIET YSTSYPDTME NSTSSKQTLK TPGKSFTRSK SLKILRNMKK SICNSCPPNK PAESVQSNNS SSFLNFGFAN RFSKPKGPRN PPPTWNI **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	PTPN22
Alternative Name:	PTPN22 (PTPN22 Products)
Background:	Tyrosine-protein phosphatase non-receptor type 22 (EC 3.1.3.48) (Hematopoietic cell protein-tyrosine phosphatase 70Z-PEP) (Lymphoid phosphatase) (LyP) (PEST-domain phosphatase) (PEP),FUNCTION: Acts as a negative regulator of T-cell receptor (TCR) signaling by direct dephosphorylation of the Src family kinases LCK and FYN, ITAMs of the TCRz/CD3 complex, as well as ZAP70, VAV, VCP and other key signaling molecules (PubMed:16461343, PubMed:18056643). Associates with and probably dephosphorylates CBL. Dephosphorylates LCK at its activating 'Tyr-394' residue (PubMed:21719704). Dephosphorylates ZAP70 at its activating 'Tyr-493' residue (PubMed:16461343). Dephosphorylates the immune system

Target Details

	activator SKAP2 (PubMed:21719704). Positively regulates toll-like receptor (TLR)-induced type 1 interferon production (PubMed:23871208). Promotes host antiviral responses mediated by type 1 interferon (By similarity). Regulates NOD2-induced pro-inflammatory cytokine secretion and autophagy (PubMed:23991106). Acts as an activator of NLRP3 inflammasome assembly by mediating dephosphorylation of 'Tyr-861' of NLRP3 (PubMed:27043286). Dephosphorylates phospho-anandamide (p-AEA), an endocannabinoid to anandamide (also called N-arachidonoylethanolamide) (By similarity). {ECO:0000250|UniProtKB:P29352, ECO:0000269|PubMed:16461343, ECO:0000269|PubMed:18056643, ECO:0000269|PubMed:19167335, ECO:0000269|PubMed:21719704, ECO:0000269|PubMed:23871208, ECO:0000269|PubMed:23991106, ECO:0000269|PubMed:27043286}.
Molecular Weight:	91.7 kDa
UniProt:	Q9Y2R2

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months

