Datasheet for ABIN7563889

PML Protein (AA 1-885) (His tag)

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Overview

Quantity:	1 mg
Target:	PML
Protein Characteristics:	AA 1-885
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PML protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Pml Protein expressed in mammalien cells.
Sequence:	METEPVSVQK VPAPPGSPCR QQDSALTPTP TMPPPEEPSE DYEHSQSPAE QAIQEEFQFL RCPSCQAQAK CPKLLPCLHT LCSGCLEAPG LQCPICKAPG QADANGEALD NVFFESLQRR LAVFRQIVDA QAACTRCKGL ADFWCFECEQ LICSKCFEAH QWYLKHEARP LADLRDNSVS SFLDSTRKSN IFCSNTNHRN PALTDIYCRG CAKPLCCTCA LLDRNHSHLH CDIGEEIQQW HEELGTMTQT LEEQGRTFDS AHAQMCSAIG QLDHARADIE KQIRARVRQV VDYVQAQERE LLEAVNDRYQ RDYQEIAGQL SCLEAVLQRI RTSGALVKRM KLYASDQEVL DMHSFLRKAL CSLRQEEPQN QKVQLLTRGF EEFKLCLQDF ISCITQRINA AVASPEAASN QPEAASTHPV TTSTPEDLEQ PKEVQSVQAQ ALELSKTQPV AMVKTVPGAH PVPVYAFSMQ GPTYREEASQ TVGSMKRKCS HEDCSRKIIK MESTEENEDR LATSSPEQSW PSTFKATSPP HLDGTSNPES TVPEKKILLP NNNHVTSDTG ETEERVVVIS SSEDSDTENL SSHELDDSSS ESSSLQLEGP NSLKALDESL AEPHLEDRTL VFFDLKIDNE TQKISQLAAV NRESKFRVLI QPEAFSVYSK

Product Details

	AVSLEAGLRH FLSFLTTMHR PILACSRLWG PGLPIFFQTL SDINKLWEFQ DTISGFLAVL PLIRERIPGA SSFKLGNLAK TYLARNMSER SALASVLAMR DLCCLLEISP GLPLAQHIYS FSSLQCFASL QPLIQASVLP QSEARLLALH NVSFVELLNA YRTNRQEGLK KYVHYLSLQT TPLSSSASTQ VAQFLQALST HMEGLLEGHA PAGAEGKAES KGCLA **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:	PML
Alternative Name:	Pml (PML Products)
Background:	Protein PML,FUNCTION: Functions via its association with PML-nuclear bodies (PML-NBs) in a wide range of important cellular processes, including tumor suppression, transcriptional regulation, apoptosis, senescence, DNA damage response, and viral defense mechanisms. Acts as the scaffold of PML-NBs allowing other proteins to shuttle in and out, a process which is regulated by SUMO-mediated modifications and interactions. Inhibits EIF4E-mediated mRNA nuclear export by reducing EIF4E affinity for the 5' 7-methylguanosine (m7G) cap of target

Target Details

	mRNAs (By similarity). Positively regulates p53/TP53 by acting at different levels (by promoting its acetylation and phosphorylation and by inhibiting its MDM2-dependent degradation). Regulates phosphorylation of ITPR3 and plays a role in the regulation of calcium homeostasis at the endoplasmic reticulum. Regulates RB1 phosphorylation and activity. Acts as both a negative regulator of PPARGC1A acetylation and a potent activator of PPAR signaling and fatty acid oxidation. Regulates translation of HIF1A by sequestering MTOR, and thereby plays a role in neoangiogenesis and tumor vascularization. Regulates PER2 nuclear localization and circadian function. Cytoplasmic PML is involved in the regulation of the TGF-beta signaling pathway. Required for normal development of the brain cortex during embryogenesis. Plays a role in granulopoiesis or monopoiesis of myeloid progenitor cells. May play a role regulating stem and progenitor cell fate in tissues as diverse as blood, brain and breast. Shows antiviral activity towards lymphocytic choriomeningitis virus (LCMV) and the vesicular stomatitis virus (VSV). {ECO:0000250|UniProtKB:P29590, ECO:0000269|PubMed:10637504, ECO:0000269|PubMed:11907221, ECO:0000269|PubMed:12439746, ECO:0000269|PubMed:14976551, ECO:0000269|PubMed:15195100, ECO:0000269|PubMed:15356634, ECO:0000269|PubMed:16915281, ECO:0000269|PubMed:19136970, ECO:0000269|PubMed:21030605, ECO:0000269|PubMed:21427174, ECO:0000269|PubMed:21779477, ECO:0000269|PubMed:22274616, ECO:0000269|PubMed:22886304, ECO:0000269|PubMed:23279884, ECO:0000269|PubMed:9488655, ECO:0000269|PubMed:9806545}.
Molecular Weight:	98.2 kDa
UniProt:	Q60953
Pathways:	p53 Signaling, Retinoic Acid Receptor Signaling Pathway, Maintenance of Protein Location, Positive Regulation of Endopeptidase Activity, Protein targeting to Nucleus

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