Datasheet for ABIN7564252

PUM2 Protein (AA 1-1066) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	PUM2
Protein Characteristics:	AA 1-1066
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PUM2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Pum2 Protein expressed in mammalien cells.
Sequence:	MNHDFQALAL ESRGMGELLP TKKFWEPDDS TKDGQKGIFL GDDEWRETAW GTSHHSMSQP IMVQRRSGQS FHGNSEVNAI LSPRSESGGL GVSMVEYVLS SSPADKLDSR FRKGTFGTRD AETDGPEKGD QKGKASPFEE DQNRDLKQDD EDSKINGRGL PNGMDADCKD FNRTPGSRQA SPTEVVERLG PSTNPPEGLG PLPNPTANKP LVEEFSNPET QNLDAMDQVG LDSLQFDYPG NQVPMDSSGA TVGLFDYNSQ QQLFQRTSAL TVQQLTAAQQ QQYALAAAQQ PHIAGVFSAG LAPAAFVPNP YIISAAPPGT DPYTAAGLAA AATLAGPAVV PPQYYGVPWG VYPANLFQQQ AAAAASNTAN QQAASQAQPG QQQVLRPGAG QRPITPSQGQ QGQQAESLAA AANPTLAFGQ SLAAGMPGYQ VLAPTAYYDQ TGALVVGPGA RTGLGAPVRL MAPTPVLISS TAAQAAAAAA AAGGTANSLT GSTNGLFRPI GTQPPQQQQQ QQQPSTNLQS NSFYGSSSLT NSSQSSSLFS HGPGQPGSAS LGFGSGSSLG AAIGSALSGF GSSVGSSASS SATRRESLST SSDLYKRSSS SLAPIGQPFY NSLGFSSSPS PIGMPLPSQT PGHSLTPPPS LSSHGSSSSL HLGGLTNGSG

Product Details

	RYISAAPGAE AKYRSASSTS SLFSSSSQLF PPSRLRYNRS DIMPSGRSRL LEDFRNNRFP NLQLRDLIGH IVEFSQDQHG SRFIQQKLER ATPAERQIVF NEILQAAYQL MTDVFGNYVI QKFFEFGSLD QKLALATRIR GHVLPLALQM YGCRVIQKAL ESISSDQQVI SEMVKELDGH VLKCVKDQNG NHVVQKCIEC VQPQSLQFII DAFKGQVFVL STHPYGCRVI QRILEHCTAE QTLPILEELH QHTEQLVQDQ YGNYVIQHVL EHGRPEDKSK IVSEIRGKVL ALSQHKFASN VVEKCVTHAS RAERALLIDE VCCQNDGPHS ALYTMMKDQY ANYVVQKMID MAEPAQRKII MHKIRPHITT LRKYTYGKHI LAKLEKYYLK NSPDLGPIGG PPNGML **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:	PUM2
Alternative Name:	Pum2 (PUM2 Products)
Background:	Pumilio homolog 2,FUNCTION: Sequence-specific RNA-binding protein that acts as a post-transcriptional repressor by binding the 3'-UTR of mRNA targets. Binds to an RNA consensus sequence, the Pumilio Response Element (PRE), 5'-UGUANAUA-3', that is related to the Nanos

Target Details

	Response Element (NRE). Mediates post-transcriptional repression of transcripts via different mechanisms: acts via direct recruitment of the CCR4-POP2-NOT deadenylase leading to translational inhibition and mRNA degradation. Also mediates deadenylation-independent repression by promoting accessibility of miRNAs. Acts as a post-transcriptional repressor of E2F3 mRNAs by binding to its 3'-UTR and facilitating miRNA regulation. Plays a role in cytoplasmic sensing of viral infection. Represses a program of genes necessary to maintain genomic stability such as key mitotic, DNA repair and DNA replication factors. Its ability to repress those target mRNAs is regulated by the lncRNA NORAD (non-coding RNA activated by DNA damage) which, due to its high abundance and multitude of PUMILIO binding sites, is able to sequester a significant fraction of PUM1 and PUM2 in the cytoplasm. May regulate DCUN1D3 mRNA levels. May support proliferation and self-renewal of stem cells. Binds specifically to miRNA MIR199A precursor, with PUM1, regulates miRNA MIR199A expression at a postranscriptional level (By similarity). {ECO:0000250|UniProtKB:Q8TB72}.
Molecular Weight:	114.3 kDa
UniProt:	Q80U58
Pathways:	Ribonucleoprotein Complex Subunit Organization

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