Datasheet for ABIN3136135

PAN2 Protein (AA 1-1200) (His tag)

1 Image

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Overview

Quantity:	1 mg
Target:	PAN2
Protein Characteristics:	AA 1-1200
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PAN2 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MNFEGLDPGL AEFSPAMHST LDPVLDAHLN PSLLQNVELD PEGVALEALP VQESVHIMEG VYSELHSVVA EVGVPVSVSH FDLHEEMLWV GSHGGHATSF FGPALERYSS FQVNGGDDIR QIQSLENGIL FLTKNNLKYM ARGGLIIFDY LLDENEDMHS VLLTDNSTLL VGGLQNHVLE IDLNTVQETQ KYAVETPGVT IMRQTNRFFF CGHTSGKVSL RDLRSFKVEH EFDAFSGSLS DFDVHGNLLA ACGFSSRLTG LACDRFLKVY DLRMMRAITP LQVHVDPAFL RFIPTYTSRL AIISQSGQCQ FCEPTGLANP ADIFHVNPVG PLLMTFDVSA SKQALAFGDS EGCVHLWTDS PEPSFNPYSR ETEFALPCLV DSLPPLDWSQ DLLPLSLIPV PLTTDALLSD WPAANSAPAP RRAPPVDAEI LRTMKKVGFI GYAPNPRTRL RNQIPYRLKE SDHEFDNFSQ VTESPTGREE EPLHTVSKKY RKVTIKYSKL GLEDFDFKHY NKTLFAGLEP HIPNAYCNCM IQVLYFLEPV RCLIQNHLCQ KEFCLACELG FLFHMLDLSR GDPCQGSNFL RAFRTIPEAS ALGLILADSD EASGKGSLAR LIQRWNRFIL TQLHQDMQEL EVPQAYRGAG GSFCSSGDSI IGQLFSCEME NCSLCRCGSE TVRASSTLLF TLSYPEDKTG KNYDFAQVLK RSICLEQNTQ AWCDNCEKYQ

	PTIQTRNIRH LPDILVINCE VNSSKEADFW RLQAEVAFKI AVKKYGGEMK SKEFALADRK ELRSPEGFLC SSIEELKNVW LPFSIRMKMT KNKGLDVCNW ADEHELSSLG APSQWGPARA EEELGVYVYD LMATVVHILD SRTGGSLVAH IKVGETYHQR KEGVTHQQWY LFNDFLIEPI DKYEAVQFDM NWKVPAILYY VKRNLNSRYN LNIKNPIEAS VLLAEASLAR KQRKTHTTFI PLMLNEMPQV GDLVGLDAEF VTLNEEEAEL RSDGTKSTIK PSQMSVARIT CVRGQGPNEG IPFIDDYIST QEQVVDYLTQ YSGIKPGDLD AKISSKHLTT LKSTYLKLRF LIDIGVKFVG HGLQKDFRVI NLMVPKDQVL DTVYLFHMPR KRMISLRFLA WYFLDLKIQG ETHDSIEDAR TALQLYRKYL ELSKNGTEPE SFHKVLKGLY EKGRKMDWKV PEPESQTSPK NAAVFSVLAL **Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**
Characteristics:	• Made in Germany - from design to production - by highly experienced protein experts. • Mouse Pan2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. • 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 will ensure that you receive a correctly folded protein. 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. In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization). When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer. The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.

Product Details

	2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	PAN2
Alternative Name:	Pan2 (PAN2 Products)
Background:	Catalytic subunit of the poly(A)-nuclease (PAN) deadenylation complex, one of two cytoplasmic mRNA deadenylases involved in general and miRNA-mediated mRNA turnover. PAN specifically shortens poly(A) tails of RNA when the poly(A) stretch is bound by poly(A)-binding protein (PABP), which is followed by rapid degradation of the shortened mRNA tails by the CCR4-NOT complex. Deadenylated mRNAs are then degraded by two alternative mechanisms, namely exosome-mediated 3'-5' exonucleolytic degradation, or deadenlyation-dependent mRNA decaping and subsequent 5'-3' exonucleolytic degradation by XRN1. {ECO:0000255|HAMAP-Rule:MF_03182, ECO:0000269|PubMed:16284618}.
Molecular Weight:	136.2 kDa Including tag.
UniProt:	Q8BGF7

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 gurantee though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)

Images

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process

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