Datasheet for ABIN3132252

APAF1 Protein (AA 1-1249) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	APAF1
Protein Characteristics:	AA 1-1249
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This APAF1 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	MDAKARNCLL QHREALEKDI KTSYIMDHMI SNGVLSVIEE EKVKSQATQY QRAAALIKMI LNKDNCAYIS FYNALLHEGY KDLAALLQSG LPLVSSSSGK DTDGGITSFV RTVLCEGGVP QRPVIFVTRK KLVHAIQQKL WKLNGEPGWV TIYGMAGCGK SVLAAEAVRD HSLLEGCFSG GVHWVSIGKQ DKSGLLMKLQ NLCMRLDQEE SFSQRLPLNI EEAKDRLRVL MLRKHPRSLL ILDDVWDPWV LKAFDNQCQI LLTTRDKSVT DSVMGPKHVV PVESGLGREK GLEILSLFVN MKKEDLPAEA HSIIKECKGS PLVVSLIGAL LRDFPNRWAY YLRQLQNKQF KRIRKSSSYD YEALDEAMSI SVEMLREDIK DYYTDLSILQ KDVKVPTKVL CVLWDLETEE VEDILQEFVN KSLLFCNRNG KSFCYYLHDL QVDFLTEKNR SQLQDLHRKM VTQFQRYYQP HTLSPDQEDC MYWYNFLAYH MASANMHKEL CALMFSLDWI KAKTELVGPA HLIHEFVAYR HILDEKDCAV CENFQEFLSL NGHLLGRQPF PNIVQLGLCE PETSEVYRQA KLQAKQEGDT GRLYLEWINK KTIKNLSRLV VRPHTDAVYH ACFSQDGQRI ASCGADKTLQ VFKAETGEKL LDIKAHEDEV

LCCAFSSDDS YIATCSADKK VKIWDSATGK LVHTYDEHSE QVNCCHFTNK SNHLLLATGS NDFFLKLWDL NQKECRNTMF GHTNSVNHCR FSPDDELLAS CSADGTLRLW DVRSANERKS INVKRFFLSS EDPPEDVEVI VKCCSWSADG DKIIVAAKNK VLLFDIHTSG LLAEIHTGHH STIQYCDFSP YDHLAVIALS QYCVELWNID SRLKVADCRG HLSWVHGVMF SPDGSSFLTA SDDQTIRVWE TKKVCKNSAI VLKQEIDVVF QENETMVLAV DNIRGLQLIA GKTGQIDYLP EAQVSCCCLS PHLEYVAFGD EDGAIKIIEL PNNRVFSSGV GHKKAVRHIQ FTADGKTLIS SSEDSVIQVW NWQTGDYVFL QAHQETVKDF RLLQDSRLLS WSFDGTVKVW NVITGRIERD FTCHQGTVLS CAISSDATKF SSTSADKTAK IWSFDLLSPL HELKGHNGCV RCSAFSLDGI LLATGDDNGE IRIWNVSDGQ LLHSCAPISV EEGTATHGGW VTDVCFSPDS KTLVSAGGYL KWWNVATGDS SQTFYTNGTN LKKIHVSPDF RTYVTVDNLG ILYILQVLE

Sequence without tag. The proposed Strep-Tag is based on experience s 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 in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Product Details

	Concentration: • The concentration of our recombinant proteins is measured using the absorbance at 280nm. • The protein's absorbance will be measured against its specific reference buffer. • We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.
Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	APAF1
Alternative Name:	Apaf1 (APAF1 Products)
Background:	Apoptotic protease-activating factor 1 (APAF-1),FUNCTION: Oligomeric Apaf-1 mediates the cytochrome c-dependent autocatalytic activation of pro-caspase-9 (Apaf-3), leading to the activation of caspase-3 and apoptosis. This activation requires ATP (By similarity). {ECO:0000250}.
Molecular Weight:	141.0 kDa
UniProt:	O88879
Pathways:	p53 Signaling, Apoptosis, Caspase Cascade in Apoptosis, Tube Formation, Positive Regulation of Endopeptidase Activity

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.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required for

Application Details

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Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months