

Datasheet for ABIN7552258

APAF1 Protein (AA 1-1248) (His tag)



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Overview

Quantity:	1 mg
Target:	APAF1
Protein Characteristics:	AA 1-1248
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This APAF1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat APAF1 Protein expressed in mammalian cells.
Sequence:	MDAKARNCLL QHREALEKDI KTSYIMDHMI SDGFLTISEE EKVRNEPTQQ QRAAMLIKMI LKKDND SYVS FYNALLHEGY KDLAALLHDG IPVVSSSSGK DSVSGITSYV RTVLCEGGVP QRPVVFVTRK KLVNAIQKL SKLKGEPGWV TIHGMAGCGK SVLAAEAVRD HSLLEGCFPG GVHWVSVGKQ DKSGLLMKLQ NLCTRLDQDE SFSQRLPLNI EEAKDRLRIL MLRKHPRSLL ILDDVWDSWV LKAFDSQCQI LLTTRDKSVT DSVMGPKYV PVESLKGKEK GLEILSLFVN MKKADLPEQA HSIKECKGS PLVSLIGAL LRDFPNRWEY YLQQLQNKQF KRIRKSSSYD YEALDEAMSI SVEMLREDIK DYYTDLILQ KDVKVPTKVL CILWDMETEE VEDILQEFVN KSLFLCDRNG KSFYYLHDL QVDFLTEKNC SQLQDLHKKI ITQFQRYHQP HTLSPDQEDC MYWYNFLAYH MASAKMHKEL CALMFSLDWI KAKTELVGPA HLIHEFVEYR HILDEKDCAV SENFQEFLSL NGHLLGRQPF PNIVQLGLCE PETSEVYQQA KLQAKQEVND GMLYLEWINK KNITNLSRLV VRPHTDAVYH ACFSEDGQRI ASCGADKTLQ VFKAETGEKL LEIKAHEDEV

LCCAFSTDDR FIATCSVDKK VKIWNSMTGE LVHTYDEHSE QVNCCHFTNS SHHLLLATGS
SDCFLKLWDL NQKECRNTMF GHTNSVNHCR FSPDDKLLAS CSADGTLKLW DATSANERKS
INVKQFFLNL EDPQEDMEVI VKCCSWSADG ARIMVAAKNK IFLFDIHTSG LLGEIHTGHH
STIQYCDFSP QNHLAVVALS QYCVELWNTD SRSKVADCRG HLSWVHGVMF SPDGSSFLT
SDDQTIRLWE TKKVCKNSAV MLKQEVDVVF QENEVMVLAV DHIRRLQLIN GRTGQIDYLT
EAQVSCCCLS PHLQYIAFGD ENGAIEILEL VNNRIFQSRF QHKKTVWHIQ FTADEKTLIS
SSDDAEIQVW NWQLDKCIFL RGHQETVKDF RLLKNSRLLS WSFDGTVKVW NIITGNKEKD
FVCHQGTVLS CDISHDATKF SSTSADKTAK IWSFDLLLPL HELRGHNGCV RCSAFSVDST
LLATGDDNGE IRIWNVSNGE LLHLCAPLSE EGAATHGGWV TDLCFSPDGK MLISAGGYIK
WWNVVTGESS QTFYTNGTNL KKIHVSPDFK TYVTVDNLGI LYILQTLE **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 mammalian 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:

APAF1

Alternative Name:

APAF1 ([APAF1 Products](#))

Target Details

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. Isoform 6 is less effective in inducing apoptosis. {ECO:0000269 PubMed:10393175, ECO:0000269 PubMed:12804598}.
Molecular Weight:	141.8 kDa
UniProt:	O14727
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.
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