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PAXIP1 Protein (AA 1-1069) (Strep Tag)





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Overview

Quantity:	1 mg
Target:	PAXIP1
Protein Characteristics:	AA 1-1069
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PAXIP1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

Product Details

Sequence:

MSDQAPKVPE EMFREVKYYA VGDIDPQVIQ LLKAGKAKEV SYNALASHII SEDGDNPEVG EAREVFDLPV VKPSWVILSV QCGTLLPVNG FSPESCQIFF GITACLSQVS SEDRSALWAL VTFYGGDCQL TLNKKCTHLI VPEPKGEKYE CALKRASIKI VTPDWVLDCV SEKTKKDEAF YHPRLIIYEE EEEEEEEEE VENEEQDSQN EGSTDEKSSP ASSQEGSPSG DQQFSPKSNT EKSKGELMFD DSSDSSPEKQ ERNLNWTPAE VPQLAAAKRR LPQGKEPGLI NLCANVPPVP GNILPPEVRG NLMAAGQNLQ SSERSEMIAT WSPAVRTLRN ITNNADIQQM NRPSNVAHIL QTLSAPTKNL EQQVNHSQQG HTNANAVLFS QVKVTPETHM LQQQQQAQQQ QQQHPVLHLQ PQQIMQLQQQ QQQQISQQPY PQQPPHPFSQ QQQQQQQAHP HQFSQQQLQF PQQQLHPPQQ LHRPQQLQP FQQQHALQQQ FHQLQQHQLQ QQQLAQLQQQ HSLLQQQQQQ QIQQQQLQRM HQQQQQQQMQ SQTAPHLSQT SQALQHQVPP QQPPQQQQQQ QPPPSPQQHQ LFGHDPAVEI PEEGFLLGCV FAIADYPEQM SDKQLLATWK RIIQAHGGTV DPTFTSRCTH LLCESQVSSA YAQAIRERKR CVTAHWLNTV LKKKKMVPPH RALHFPVAFP PGGKPCSQHI ISVTGFVDSD

RDDLKLMAYL AGAKYTGYLC RSNTVLICKE PTGLKYEKAK EWRIPCVNAQ WLGDILLGNF EALRQIQYSR YTAFSLQDPF APTQHLVLNL LDAWRVPLKV SAELLMSIRL PPKLKQNEVA NVQPSSKRAR IEDVPPPTKK LTPELTPFVL FTGFEPVQVQ QYIKKLYILG GEVAESAQKC THLIASKVTR TVKFLTAISV VKHIVTPEWL EECFRCQKFI DEQNYILRDA EAEVLFSFSL EESLKRAHVS PLFKAKYFYI TPGICPSLST MKAIVECAGG KVLSKQPSFR KLMEHKQNSS LSEIILISCE NDLHLCREYF ARGIDVHNAE FVLTGVLTQT LDYESYKFN

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 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.

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 posttranslational 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!

Concentration:

• 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.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

- 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.
- 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:

>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Endotoxin Level:

Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

Grade:

Crystallography grade

Target Details

Target:

PAXIP1

Alternative Name:

PAXIP1 (PAXIP1 Products)

Background:

PAX-interacting protein 1 (PAX transactivation activation domain-interacting protein), FUNCTION: Involved in DNA damage response and in transcriptional regulation through histone methyltransferase (HMT) complexes. Plays a role in early development. In DNA damage response is required for cell survival after ionizing radiation. In vitro shown to be involved in the homologous recombination mechanism for the repair of double-strand breaks (DSBs). Its localization to DNA damage foci requires RNF8 and UBE2N. Recruits TP53BP1 to DNA damage foci and, at least in particular repair processes, effective DNA damage response appears to require the association with TP53BP1 phosphorylated by ATM at 'Ser-25'. Together with TP53BP1 regulates ATM association. Proposed to recruit PAGR1 to sites of DNA damage and the PAGR1:PAXIP1 complex is required for cell survival in response to DNA damage, the function is probably independent of MLL-containing histone methyltransferase (HMT) complexes. However, this function has been questioned (By similarity). Promotes ubiquitination of PCNA following UV irradiation and may regulate recruitment of polymerase eta and RAD51 to chromatin after DNA damage. Proposed to be involved in transcriptional regulation by linking MLL-containing histone methyltransferase (HMT) complexes to gene promoters by interacting with promoter-bound transcription factors such as PAX2. Associates with gene promoters that

	are known to be regulated by KMT2D/MLL2. During immunoglobulin class switching in
	activated B-cells is involved in trimethylation of histone H3 at 'Lys-4' and in transcription
	initiation of downstream switch regions at the immunoglobulin heavy-chain (Igh) locus, this
	function appears to involve the recruitment of MLL-containing HMT complexes. Conflictingly,
	its function in transcriptional regulation during immunoglobulin class switching is reported to
	be independent of the MLL2/MLL3 complex (By similarity). {ECO:0000250 UniProtKB:Q6NZQ4,
	ECO:0000269 PubMed:14576432, ECO:0000269 PubMed:15456759,
	ECO:0000269 PubMed:17690115, ECO:0000269 PubMed:17925232,
	ECO:0000269 PubMed:18353733, ECO:0000269 PubMed:20088963,
	ECO:0000269 PubMed:23727112}.
Molecular Weight:	121.3 kDa
UniProt:	Q6ZW49
Pathways:	Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process,
	Production of Molecular Mediator of Immune Response
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
	as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	
Comment:	guarantee though.
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Restrictions: For Research Use only

Handling

Format: Liquid

needed is the DNA that codes for the desired protein!

Handling

Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

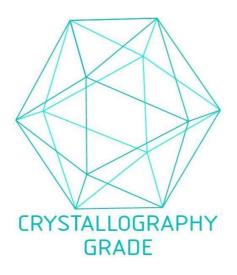


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process