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Datasheet for ABIN3092293
IKAP/p150 Protein (AA 1-1332) (Strep Tag)

Overview

Quantity:	1 mg
Target:	IKAP/p150 (ELP1)
Protein Characteristics:	AA 1-1332
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This IKAP/p150 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence: MRNLKLFRTL EFRDIQGPGN PQCFLSRTEQ GTVLIGSEHG LIEVDPVSRE VKNEVSLVAE
GFLPEDGSGR IVGVQDLLDQ ESVCVATASG DVILCSLSTQ QLECVGSVAS GISVMSWSPD
QELVLLATGQ QTLIMMTKDF EPILEQQIHQ DDFGESKFIT VGWGRKETQF HGSEGRQAAF
QMQMHEALP WDDHRPQVTW RGDGQFFAVS VVCPETGARK VRVWNREFAL QSTSEPVAGL
GPALAWKPSG SLIASTQDKP NQQDIVFFEK NGLLHGHTL PFLKDEVKVN DLLWNADSSV
LAVWLEDLQR EESSIPKTCV QLWTVGNYHW YLKQSLSFST CGKSKIVSLM WDPVTPYRLH
VLCQGWHYLA YDWHWTTDRS VGDNSSLN VAVIDGNRVL VTVFRQTVVP PPMCTYQLLF
PHPVNQVTFL AHPQKSNLA VLDASNQISV YKCGDCPSAD PTVKLGAVGG SGFKVCLRTP
HLEKRYKIQF ENNEDQDVNP LKLGLLTWIE EDVFLAVSHS EFSPRSVIHH LTAASSEMDE
EHGQLNVSSS AAVDGVIIISL CCNSKTKSVV LQLADGQIFK YLWESPSLAI KPWKNSGGFP
VRFYPCTQT ELAMIGEEEC VLGLTDRCRF FINDIEVASN ITSFVYDEF LLLTTHSHTC
QCFCLRDASF KTLQAGLSSN HVSHGEVLRK VERGSRIVTV VPQDTKLVLQ MPRGNLEVVH

HRALVLAQIR KWLDKLMFKE AFECMRKLRI NLNLIYDHNP KVFLGNVETF IKQIDSVNHI
NLFFTELKEE DVTKTMYPAP VTSSVYLSRD PDGNKIDLVC DAMRAVMESI NPHKYCLSIL
TSHVKKTTPE LEIVLQKVHE LQGNAPSDPD AVSAEEALKY LLHLVDVNEL YDHSLGTYDF
DLVLMVAEKS QKDPKEYLPF LNTLKKMETN YQRFTIDKYL KRYEKAIGHL SKCGPEYFPE
CLNLIKDKNL YNEALKLYSP SSQYQDISI AYGEHLMQEH MYEPAGLMFA RCGAHEKALS
AFLTCGNWKQ ALCVAAQLNF TKDQLVGLGR TLAGKLVEQR KHIDAAMVLE ECAQDYEEAV
LLLLLEGAWE EALRLVYKYN RLDIIETNVK PSILEAQKNY MAFLDSQTAT FSRHKKRLLV
VRELKEQAQQ AGLDDEVPHG QESDLFSETS SVVSGSEMSG KYSHSNSRIS ARSSKNRRKA
ERKKHSLKEG SPLEDLALLE ALSEVVQNTN NLKDEVYHIL KVLFLFEFDE QGRELQKAFE
DTLQLMERSL PEIWTLTYQQ NSATPVLGPN STANSIMASY QQKTSVPVL DAELFIPPKI
NRRTQWKLSL LD

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 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

Product Details

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)

Target Details

Target:	IKAP/p150 (ELP1)
Alternative Name:	ELP1 (ELP1 Products)
Background:	Elongator complex protein 1 (ELP1) (IkappaB kinase complex-associated protein) (IKK complex-associated protein) (p150),FUNCTION: Component of the elongator complex which is required for multiple tRNA modifications, including mcm5U (5-methoxycarbonylmethyl uridine), mcm5s2U (5-methoxycarbonylmethyl-2-thiouridine), and ncm5U (5-carbamoylmethyl uridine) (PubMed:29332244). The elongator complex catalyzes the formation of carboxymethyluridine in the wobble base at position 34 in tRNAs (PubMed:29332244). Regulates the migration and branching of projection neurons in the developing cerebral cortex, through a process depending on alpha-tubulin acetylation (By similarity). ELP1 binds to tRNA, mediating interaction of the elongator complex with tRNA (By similarity). May act as a scaffold protein that assembles active IKK-MAP3K14 complexes (IKKA, IKKB and MAP3K14/NIK) (PubMed:9751059). {ECO:0000250 UniProtKB:Q06706, ECO:0000250 UniProtKB:Q7TT37, ECO:0000269 PubMed:9751059, ECO:0000303 PubMed:29332244}.

Target Details

Molecular Weight: 150.3 kDa

UniProt: [O95163](#)

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 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!

Restrictions: For Research Use only

Handling

Format: Liquid

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)