Datasheet for ABIN3089455

ASXL1 Protein (AA 1-1541) (Strep Tag)

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Overview

Quantity:	1 mg
Target:	ASXL1
Protein Characteristics:	AA 1-1541
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ASXL1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MKDKQKKKKE RTWAEAARLV LENYSDAPMT PKQILQVIEA EGLKEMRSGT SPLACLNAML HSNSRGGEGL FYKLPGRISL FTLKKDALQW SRHPATVEGE EPEDTADVES CGSNEASTVS GENDVSLDET SSNASCSTES QSRPLSNPRD SYRASSQANK QKKKTGVMLP RVVLTPLKVN GAHVESASGF SGCHADGESG SPSSSSSGSL ALGSAAIRGQ AEVTQDPAPL LRGFRKPATG QMKRNRGEEI DFETPGSILV NTNLRALINS RTFHALPSHF QQQLLFLLPE VDRQVGTDGL LRLSSSALNN EFFTHAAQSW RERLADGEFT HEMQVRIRQE MEKEKKVEQW KEKFFEDYYG QKLGLTKEES LQQNVGQEEA EIKSGLCVPG ESVRIQRGPA TRQRDGHFKK RSRPDLRTRA RRNLYKKQES EQAGVAKDAK SVASDVPLYK DGEAKTDPAG LSSPHLPGTS SAAPDLEGPE FPVESVASRI QAEPDNLARA SASPDRIPSL PQETVDQEPK DQKRKSFEQA ASASFPEKKP RLEDRQSFRN TIESVHTEKP QPTKEEPKVP PIRIQLSRIK PPWVVKGQPT YQICPRIIPT TESSCRGWTG ARTLADIKAR ALQVRGARGH HCHREAATTA IGGGGGPGGG GGGATDEGGG RGSSSGDGGE ACGHPEPRGG PSTPGKCTSD LQRTQLLPPY PLNGEHTQAG TAMSRARRED

LPSLRKEESC LLQRATVGLT DGLGDASQLP VAPTGDQPCQ ALPLLSSQTS VAERLVEQPQ LHPDVRTECE SGTTSWESDD EEQGPTVPAD NGPIPSLVGD DTLEKGTGQA LDSHPTMKDP VNVTPSSTPE SSPTDCLQNR AFDDELGLGG SCPPMRESDT RQENLKTKAL VSNSSLHWIP IPSNDEVVKQ PKPESREHIP SVEPQVGEEW EKAAPTPPAL PGDLTAEEGL DPLDSLTSLW TVPSRGGSDS NGSYCQQVDI EKLKINGDSE ALSPHGESTD TASDFEGHLT EDSSEADTRE AAVTKGSSVD KDEKPNWNQS APLSKVNGDM RLVTRTDGMV APQSWVSRVC AVRQKIPDSL LLASTEYQPR AVCLSMPGSS VEATNPLVMQ LLQGSLPLEK VLPPAHDDSM SESPQVPLTK DQSHGSLRMG SLHGLGKNSG MVDGSSPSSL RALKEPLLPD SCETGTGLAR IEATQAPGAP QKNCKAVPSF DSLHPVTNPI TSSRKLEEMD SKEQFSSFSC EDQKEVRAMS QDSNSNAAPG KSPGDLTTSR TPRFSSPNVI SFGPEQTGRA LGDQSNVTGQ GKKLFGSGNV AATLQRPRPA DPMPLPAEIP PVFPSGKLGP STNSMSGGVQ TPREDWAPKP HAFVGSVKNE KTFVGGPLKA NAENRKATGH SPLELVGHLE GMPFVMDLPF WKLPREPGKG LSEPLEPSSL PSQLSIKQAF YGKLSKLQLS STSFNYSSSS PTFPKGLAGS VVQLSHKANF GASHSASLSL QMFTDSSTVE SISLQCACSL KAMIMCQGCG AFCHDDCIGP SKLCVLCLVV R

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.

Product Details

- 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:	ASXL1
Alternative Name:	ASXL1 (ASXL1 Products)
Background:	Polycomb group protein ASXL1 (Additional sex combs-like protein 1),FUNCTION: Probable Polycomb group (PcG) protein involved in transcriptional regulation mediated by ligand-bound nuclear hormone receptors, such as retinoic acid receptors (RARs) and peroxisome proliferator-activated receptor gamma (PPARG) (PubMed:16606617). Acts as a coactivator of RARA and RXRA through association with NCOA1 (PubMed:16606617). Acts as a corepressor for PPARG and suppresses its adipocyte differentiation-inducing activity (By similarity). Non-catalytic component of the PR-DUB complex, a complex that specifically mediates deubiquitination of

Target Details

	histone H2A monoubiquitinated at 'Lys-119' (H2AK119ub1) (PubMed:20436459). Acts as a sensor of N(6)-methyladenosine methylation on DNA (m6A): recognizes and binds m6A DNA, leading to its ubiquitination and degradation by TRIP12, thereby inactivating the PR-DUB complex and regulating Polycomb silencing (PubMed:30982744). {ECO:0000250|UniProtKB:P59598, ECO:0000269|PubMed:16606617, ECO:0000269|PubMed:20436459, ECO:0000269|PubMed:30982744}.
Molecular Weight:	165.4 kDa
UniProt:	Q8IXJ9
Pathways:	Retinoic Acid Receptor Signaling Pathway

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

Handling

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

