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Datasheet for ABIN3136324

ASXL2 Protein (AA 1-1370) (Strep Tag)

Overview

Quantity:	1 mg
Target:	ASXL2
Protein Characteristics:	AA 1-1370
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ASXL2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MREKGRRKKG RTWAEAAKT VLEKYPNTPMS HKEILQVIQR EGLKEIRSGT SPLACLNAML HTNSRGEEGI FYKVPGRMGV YTLKKDVPDG VKELSECSEE SSDGQSDSHS SDNSSSSDGG SNKEGRKSRW KRKVSSRLSH PPSPPSGCPs PTIPASKVIS PSQKHSKKAL KQALKQQQQK KKQQQCRPSM SISNQHLCLK TVKAASDSVP AKPGQMKRTK CADIDVETPD SILVNTNLRA LINKHTFSVL PGDCQQRLLL LLPEVDVRQV PDGLMKLNGS ALNNEFFTSA AQGWKERLSE GEFTPEMQVR IRQEIEKEK VELWKEQFFE NYYGQSSGLS LEDSQKLTA SSDPKAKKTP AEQPKSILPS EASPVRIVPV VPQSECKEEA VQIPSPSQKE ENQDEARPDS KSPEPVLASA SNTNELITMK PIKSPKDEGL LEQKPVACAE QESEKENHVT TTSRNNKSEN QEALAIKPSK SKNAGLQKPI IKPVAEASPL NPDMKMPPAT VTDQIQESLK RKSSLTDEEA TSSWEKRPRI TENRQHQQPF QVSPQPFLNR GDRVQVRKVP PLKIPVSRIS PMLFSTSQVS PRARFPISIT SPYRTGARTL ADIKAKAQLV EAQKAAAAA AAAAAAASVG GTIPGPGPGG GQSPREGGER KIAGGGSAGS DPVSTNGKGP TLELAGTGSR GGTRELLPCG PQPETNMPGQ AQPPGISGAQ
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LQQTSSVPTG LASSGACTSV PLPAHIEISN SEKPNLHKAT ATAASPCHLQ DPRSCRLEKA
LSPTGPPLIS GASTVYFVAD GTVEPKAGSN KNAPKPSALA KTTAPAPLDM TSSPVTTASL
EKLVPQISG TATSTGSAPS SSTLPAASSL KTPGTSANMN GPISRTSSSI PANNPLVTQL
LQ GKDVPLEQ ILPKPLTKIE MKTVPLTTKE EKGIGIFPGI SVMESSSREE VNQRQAHLAI
PQLGKPLQSK QLSQVPRPVF TAKDRKDPCI DTHQYREGLS KTTQDQLFQT LIQRAQRQSV
LSFVPPSQFN FAHSGFHLED ISTSQKFMLG FAGRRTSKPA MAGHYLLNIS TYGRGTENIK
RTHSVNPDDR FCLSSPTEAL RMGHADYKNT TGEISSKEDE SDEDRVGDEQ EPISVKEEPW
ASQSSGRHPH HGEASSTNDC LASKNGKTEA PVSEQTTLGQ ENYIFSRGQA SDEKSLPRDF
IPAAHKQMTM AVRKGKTVCSS PELFNSTALS LPADSPTHQP LLLPPLQTPK LYGSPTQIGP
SYRGMINVST SSDMDHNSAI PGSQVSSNVG DVMSFSVTVT TIPASQAMNP SSHGQTIPVQ
TFPDDNSIED TPSKCYCRLK AMIMCKGCGA FCHDDCIGPS KLCVSLVVR

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)
Grade:	Crystallography grade

Target Details

Target:	ASXL2
Alternative Name:	Asxl2 (ASXL2 Products)
Background:	Putative Polycomb group protein ASXL2 (Additional sex combs-like protein 2),FUNCTION: Putative Polycomb group (PcG) protein. PcG proteins act by forming multiprotein complexes, which are required to maintain the transcriptionally repressive state of homeotic genes throughout development. PcG proteins are not required to initiate repression, but to maintain it during later stages of development. They probably act via methylation of histones, rendering chromatin heritably changed in its expressibility. Involved in transcriptional regulation mediated by ligand-bound nuclear hormone receptors, such as peroxisome proliferator-activated receptor gamma (PPARG). Acts as a coactivator for PPARG and enhances its adipocyte differentiation-inducing activity, the function seems to involve differential recruitment of acetylated and methylated histone H3 (By similarity). {ECO:0000250}.

Target Details

Molecular Weight:	147.1 kDa
UniProt:	Q8BZ32
Pathways:	Positive Regulation of fat Cell Differentiation

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:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
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)