antibodies

Datasheet for ABIN3082508 KIF3A Protein (AA 1-699) (Strep Tag)





Overview

| Quantity: | 1 mg |
|-------------------------------|--|
| Target: | KIF3A |
| Protein Characteristics: | AA 1-699 |
| Origin: | Human |
| Source: | Tobacco (Nicotiana tabacum) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This KIF3A protein is labelled with Strep Tag. |
| Application: | ELISA, Western Blotting (WB), SDS-PAGE (SDS) |

Product Details

| Sequence: | MPINKSEKPE SCDNVKVVVR CRPLNEREKS MCYKQAVSVD EMRGTITVHK TDSSNEPPKT |
|-----------|---|
| | FTFDTVFGPE SKQLDVYNLT ARPIIDSVLE GYNGTIFAYG QTGTGKTFTM EGVRAIPELR |
| | GIIPNSFAHI FGHIAKAEGD TRFLVRVSYL EIYNEEVRDL LGKDQTQRLE VKERPDVGVY |
| | IKDLSAYVVN NADDMDRIMT LGHKNRSVGA TNMNEHSSRS HAIFTITIEC SEKGIDGNMH |
| | VRMGKLHLVD LAGSERQAKT GATGQRLKEA TKINLSLSTL GNVISALVDG KSTHVPYRNS |
| | KLTRLLQDSL GGNSKTMMCA NIGPADYNYD ETISTLRYAN RAKNIKNKAR INEDPKDALL |
| | RQFQKEIEEL KKKLEEGEEI SGSDISGSEE DDDEEGEVGE DGEKRKKRRG KKKVSPDKMI |
| | EMQAKIDEER KALETKLDME EEERNKARAE LEKREKDLLK AQQEHQSLLE KLSALEKKVI |
| | VGGVDLLAKA EEQEKLLEES NMELEERRKR AEQLRRELEE KEQERLDIEE KYTSLQEEAQ |
| | GKTKKLKKVW TMLMAAKSEM ADLQQEHQRE IEGLLENIRQ LSRELRLQML IIDNFIPRDY |
| | QEMIENYVHW NEDIGEWQLK CVAYTGNNMR KQTPVPDKKE KDPFEVDLSH VYLAYTEESL |
| | RQSLMKLERP RTSKGKARPK TGRRKRSAKP ETVIDSLLQ |

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3082508 | 04/16/2024 | Copyright antibodies-online. All rights reserved. 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®):

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| | 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. 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: | KIF3A |
|---------------------|---|
| Alternative Name: | KIF3A (KIF3A Products) |
| Background: | Kinesin-like protein KIF3A (Microtubule plus end-directed kinesin motor 3A),FUNCTION: Microtubule-based anterograde translocator for membranous organelles. Plus end-directed microtubule sliding activity in vitro. Plays a role in primary cilia formation. Plays a role in centriole cohesion and subdistal appendage organization and function. Regulates the formation of the subdistal appendage via recruitment of DCTN1 to the centriole. Also required for ciliary basal feet formation and microtubule anchoring to mother centriole. {ECO:0000250 UniProtKB:P28741}. |
| Molecular Weight: | 80.0 kDa |
| UniProt: | Q9Y496 |
| Pathways: | Hedgehog Signaling |
| 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 |

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| Application Details | |
|---------------------|---|
| | 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 |

Expiry Date: Unlimited (if stored properly)

Store at -80°C.

Images

Storage Comment:



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

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