

Datasheet for ABIN3136641
DYNC1LI1 Protein (AA 1-523) (Strep Tag)



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Overview

Quantity:	1 mg
Target:	DYNC1LI1
Protein Characteristics:	AA 1-523
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DYNC1LI1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence: MAAVGRVGSF GSSPPGLAST YASGPLANEL ASGSGGPAAG DDEDGQNLWS CILSEVSTRS
RSKLPTGKNV LLLGEDGAGK TSLIRRIQGI EYKKGGRGLE YLYLNVHDED RDDQTRCNVW
ILDGDLYHKG LLKFSLDALS LRDTLVMLVW DMSKPWTALD SLQKWASVVR EHVDKLKIPP
EEMKEMEQKL IRDFQEYVEP GEDFPASPQR RTTGAQEDRG DSVVLPLGAD TLTHNLGLPV
LVVCTKCDAL SVLEKEHDYR DEHFDFIQSH IRKFCLQYGA ALIYTSVKEN KNIDLVIYKYI
VQKLYGFPYK IPAVVVEKDA VFIPAGWDND KKIGILHENF QTLKVEDNFE DIITKPPVRK
FVHEKEIMAE DDQVFLMKLQ SLLAKQPPTA AGRPVDASPR VPGGSPRTPN RSVSSNVASV
SPIPAGSKKI DPNMKAGATS EGVLANFFNS LLSKKTGSPG GPGVGGSPGG GAAGASPSLP
PSAKKSGQKP VLSDVHAELD RITRKPASVS PTTPTSPTEG EAS

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.

Product Details

Characteristics:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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 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 against its specific reference buffer.
- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

Purity:

> 80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Target Details

Target:

DYNC1LI1

Target Details

Alternative Name: [Dync1li1 \(DYNC1L1 Products\)](#)

Background: Cytoplasmic dynein 1 light intermediate chain 1 (Dynein light chain A) (DLC-A) (Dynein light intermediate chain 1, cytosolic),FUNCTION: Acts as one of several non-catalytic accessory components of the cytoplasmic dynein 1 complex that are thought to be involved in linking dynein to cargos and to adapter proteins that regulate dynein function. Cytoplasmic dynein 1 acts as a motor for the intracellular retrograde motility of vesicles and organelles along microtubules. May play a role in binding dynein to membranous organelles or chromosomes. Probably involved in the microtubule-dependent transport of pericentrin. Is required for progress through the spindle assembly checkpoint. The phosphorylated form appears to be involved in the selective removal of MAD1L1 and MAD1L2 but not BUB1B from kinetochores (By similarity). Forms a functional Rab11/RAB11FIP3/dynein complex onto endosomal membrane that regulates the movement of peripheral sorting endosomes (SE) along microtubule tracks toward the microtubule organizing center/centrosome, generating the endosomal recycling compartment (ERC) (By similarity). {ECO:0000250, ECO:0000250|UniProtKB:Q9Y6G9}.

Molecular Weight: 56.6 kDa

UniProt: [Q8R1Q8](#)

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.

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Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months