

Datasheet for ABIN3137415

NUMB Protein (AA 1-653) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	NUMB
Protein Characteristics:	AA 1-653
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NUMB protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	<p>MNKLRSQSFRR KKDYYVPEAS RPHQWQTDEE GVRTGKCSFP VKYLGHVEVD ESRGMHICED</p> <p>AVKRLKAERK FFKGFFGKTG KKAVKAVLWV SADGLRVVDE KTKDLIVDQT IEKVSFCAPD</p> <p>RNFDRAFSYI CRDGTTRRWI CHCFMAVKDT GERLSHAVGC AFAACLERKQ KREKECGVTA</p> <p>TFDASRTTFT REGSFRVTTA TEQAEREEIM KQLQDAKKA ETDKTVVGPSV APGNTAPSPS</p> <p>SPTSPTPDGT ASSEMNNPHA IPRRHAPIEQ LARQGSFRGF PALSQKMSPF KRQLSLRINE</p> <p>LPSTMQRKTD FPIKNTVPEV EGEAESISSL CSQITSAFST PSEDPFSSAP MTKPVTLVAP</p> <p>QSPVLQANGT DSASHVLTAK PANTALAHVA MPVRETNPWA HVPDAANKEI AAHPGTEWG</p> <p>QSSGAASPGL FQAGHRRTPS EADRWLEEVS KSVRAQQPV SAAPLQPVVQ PPPPAAIAPP</p> <p>APPFQGHAFI TSQVPVGVV PPLQPAFVPT QSYPVANGMP YPASNVPPVVG ITPSQMVANV</p> <p>FGTAGHPQTT HPHQSPSLAK QQTFFQYETS SATTSPPFFKP PAQHLNGSAA FNGVDNGGLA</p> <p>SGNRHAEVPP GTCPVDPFEA QWAALESKSK QRTNPSPTNP FSSDLQKTFE IEL</p>

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 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:

> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Product Details

Grade: custom-made

Target Details

Target: NUMB

Alternative Name: Numb ([NUMB Products](#))

Background: Protein numb homolog (m-Nb) (m-Numb),FUNCTION: Regulates clathrin-mediated receptor endocytosis (By similarity). Plays a role in the process of neurogenesis (PubMed:10841580, PubMed:12410312, PubMed:15273690, PubMed:17174898). Required throughout embryonic neurogenesis to maintain neural progenitor cells, also called radial glial cells (RGCs), by allowing their daughter cells to choose progenitor over neuronal cell fate (PubMed:15273690, PubMed:12410312). Not required for the proliferation of neural progenitor cells before the onset of neurogenesis (PubMed:15273690, PubMed:12410312). Also involved postnatally in the subventricular zone (SVZ) neurogenesis by regulating SVZ neuroblasts survival and ependymal wall integrity (PubMed:17174898). May also mediate local repair of brain ventricular wall damage (PubMed:17174898). {ECO:0000250|UniProtKB:P49757, ECO:0000269|PubMed:10841580, ECO:0000269|PubMed:12410312, ECO:0000269|PubMed:15273690, ECO:0000269|PubMed:17174898}.

Molecular Weight: 70.8 kDa

UniProt: [Q9QZS3](#)

Pathways: [Cell-Cell Junction Organization](#)

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.

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Application Details

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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