

Datasheet for ABIN3136708

NRBF2 Protein (AA 1-287) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	NRBF2
Protein Characteristics:	AA 1-287
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NRBF2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AlICE®
Sequence:	MEVMEGPLNL AHQQSRRADR LLAAGKYEEA ISCHRKATTY LSEAMKLTES EQAHLSELEQ RDSHMKQLLL IQERWKRAKR EERLKAQQST ERDGAPHLQA PPRPSEDAEG QSPLLSQPYI PSTERRLPEV QGVFDRDPDT LLFLLQKNE PSEPCIGSKA PKDDKTIIEE QATKIADLKR HVEFLVAENE RLRKENKQLK AEKARLLKGT AEKELDVDAD FVEKSELWGL PSHSESAAAAS STWQKFAANT GKAKDIPIN LPPLDFPSPE LPLMESEDI LKGFMMND 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.
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Product Details

- 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).
Grade:	custom-made

Target Details

Target:	NRBF2
Alternative Name:	Nrbf2 (NRBF2 Products)

Target Details

Background:	Nuclear receptor-binding factor 2 (NRBF-2),FUNCTION: May modulate transcriptional activation by target nuclear receptors. Can act as transcriptional activator (in vitro) (By similarity). {ECO:0000250 UniProtKB:Q96F24}., FUNCTION: Involved in starvation-induced autophagy probably by its association with PI3K complex I (PI3KC3-C1). However, effects has been described variably. Involved in the induction of starvation-induced autophagy (By similarity). Stabilizes PI3KC3-C1 assembly and enhances ATG14-linked lipid kinase activity of PIK3C3 (PubMed:24849286). Proposed to negatively regulate basal and starvation-induced autophagy and to inhibit PIK3C3 activity by modulating interactions in PI3KC3-C1 (By similarity). May be involved in autophagosome biogenesis (By similarity). May play a role in neural progenitor cell survival during differentiation (PubMed:18619852). {ECO:0000250 UniProtKB:Q96F24, ECO:0000269 PubMed:18619852, ECO:0000269 PubMed:24849286}., FUNCTION: Involved in the induction of starvation-induced autophagy. Modulates ATG14-linked lipid kinase activity of PIK3C3 and stabilizes PI3K complex I (PI3KC3-C1) assembly (PubMed:24849286). May play a role in neural progenitor cell survival during differentiation (PubMed:18619852). {ECO:0000250 UniProtKB:Q96F24, ECO:0000269 PubMed:18619852, ECO:0000269 PubMed:24849286}.
Molecular Weight:	32.5 kDa
UniProt:	Q8VCQ3
Pathways:	Nuclear Receptor Transcription 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 <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. 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!

Application Details

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