

Datasheet for ABIN3134699

NBR1 Protein (AA 1-988) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	NBR1
Protein Characteristics:	AA 1-988
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NBR1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AlIcE®
Sequence:	<p>MEPQVTLNVT FKNETQSFLV SDPENTTWAD VEAMVKVSFD LNTIQIKYLD EENEEISINS</p> <p>QGEYEEALKM ANIKQGNQLQ MQVHEGYHVV DEALPKNVVE NQAAARTGKK PLAHYSSLVR</p> <p>VLGSDMKTTE EPAPEQCSSA PCDTDQPQDK PPDWFTSYLE MFREQVVKET VEKLEQRLQE</p> <p>KLVLQKPLLS SSPTEVSMPI SEETLFLPEN QFSWHIACSH CQKRIVGVRY QCSLCPSYNI</p> <p>CEDCEAGPYT HDTNHVLLKL RRPVVISSEP FFYSKYSAPR LPAALEQVRL QKQVDKNFVK</p> <p>AEKQRLRAEK KQRKAEVKEL KKQLKLHRKI HLWNSIHGLQ SPKSPLGRPE SLLQSNTLML</p> <p>PLQPCAPVMP TLSAAFDEN LPDGTHLQPG TKFIKHWRMK NTGNVKWNTD TKLKFMWGNL</p> <p>TLASTEKKDV LVPCLKAGHV GVVSVEFIAP TLEGTYTSHW RLSHKGQQFG PRVWCSIIVD</p> <p>PFPSSSPDN VEGDRISSEK ADDFSCEQEE AFLLAEEEIP LGEVTKQTEG TGASASQKTR</p> <p>RAASERELYI PSVDLLTAQD LLSFELLDIN IVQELERVPH NTPVDMTPCM SPLPHDSPLI</p> <p>EKPGLGQIQE ESEGAGFKAP PDSTVSAKRK AETPASVEET EEDLSGTQFV CETVIRSLTL</p>

DAAPDHNPPC RQRSPQRELQ LYSTEGQQPL VLPGFCRKDS SLKFALPEEG PRGDEREEIV
HIVEEEVVVEE EEEVQDEEVQ SQSSASSEDY IILPECFDT SRPLGDSMYS SALSQPGLER
GAEGEPGIES GLEPTEARER LPERESQPQE QSISDILTTS QPLDTVPLVP EVAGLPAALS
RSAPCGQCES SGVDSPGVDS PATMHEVPPA PDDIRGEPRG STGLANSRQR SCDHSRHHNG
SSIAGGLVKG ALSVAASAYK ALFSGPPVTA QPIVSEDQTT ALMAHLFEMG FCDRQLNLRL
LRKHNYNILQ VVTELLQVNN NDWYSHRY

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.

Product Details

- 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: NBR1

Alternative Name: Nbr1 ([NBR1 Products](#))

Background: Next to BRCA1 gene 1 protein (Membrane component chromosome 17 surface marker 2 homolog) (Neighbor of BRCA1 gene 1 protein),FUNCTION: Ubiquitin-binding autophagy adapter that participates in different processes including host defense or intracellular homeostasis (PubMed:31916398, PubMed:34374750). Possesses a double function during the selective autophagy by acting as a shuttle bringing ubiquitinated proteins to autophagosomes and also by participating in the formation of protein aggregates. Plays a role in the regulation of the innate immune response by modulating type I interferon production and targeting ubiquitinated IRF3 for autophagic degradation (By similarity). In response to oxidative stress, promotes an increase in SQSTM1 levels, phosphorylation, and body formation by preventing its autophagic degradation (PubMed:31916398). In turn, activates the KEAP1-NRF2/NFE2L2 antioxidant pathway (PubMed:31916398). Plays also non-autophagy role by mediating the shuttle of IL-12 to late endosome for subsequent secretion (PubMed:34374750).
{ECO:0000250|UniProtKB:Q14596, ECO:0000269|PubMed:31916398, ECO:0000269|PubMed:34374750}.

Molecular Weight: 110.0 kDa

UniProt: [P97432](#)

Pathways: [Autophagy](#)

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.

Application Details

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>
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Restrictions:	For Research Use only
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Handling

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