antibodies

Datasheet for ABIN3094033 NBR1 Protein (AA 1-966) (Strep Tag)





Overview

Quantity:	1 mg
Target:	NBR1
Protein Characteristics:	AA 1-966
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NBR1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MEPQVTLNVT FKNEIQSFLV SDPENTTWAD IEAMVKVSFD LNTIQIKYLD EENEEVSINS
	QGEYEEALKM AVKQGNQLQM QVHEGHHVVD EAPPPVVGAK RLAARAGKKP LAHYSSLVRV
	LGSDMKTPED PAVQSFPLVP CDTDQPQDKP PDWFTSYLET FREQVVNETV EKLEQKLHEK
	LVLQNPSLGS CPSEVSMPTS EETLFLPENQ FSWHIACNNC QRRIVGVRYQ CSLCPSYNIC
	EDCEAGPYGH DTNHVLLKLR RPVVGSSEPF CHSKYSTPRL PAALEQVRLQ KQVDKNFLKA
	EKQRLRAEKK QRKAEVKELK KQLKLHRKIH LWNSIHGLQS PKSPLGRPES LLQSNTLMLP
	LQPCTSVMPM LSAAFVDENL PDGTHLQPGT KFIKHWRMKN TGNVKWSADT KLKFMWGNLT
	LASTEKKDVL VPCLKAGHVG VVSVEFIAPA LEGTYTSHWR LSHKGQQFGP RVWCSIIVDP
	FPSEESPDNI EKGMISSSKT DDLTCQQEET FLLAKEERQL GEVTEQTEGT AACIPQKAKN
	VASERELYIP SVDLLTAQDL LSFELLDINI VQELERVPHN TPVDVTPCMS PLPHDSPLIE
	KPGLGQIEEE NEGAGFKALP DSMVSVKRKA ENIASVEEAE EDLSGTQFVC ETVIRSLTLD
	AAPDHNPPCR QKSLQMTFAL PEGPLGNEKE EIIHIAEEEA VMEEEEDEED EEEEDELKDE

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	VQSQSSASSE DYIIILPECF DTSRPLGDSM YSSALSQPGL ERGAEGKPGV EAGQEPAEAG
	ERLPGGENQP QEHSISDILT TSQTLETVPL IPEVVELPPS LPRSSPCVHH HGSPGVDLPV
	TIPEVSSVPD QIRGEPRGSS GLVNSRQKSY DHSRHHHGSS IAGGLVKGAL SVAASAYKAL
	FAGPPVTAQP IISEDQTAAL MAHLFEMGFC DRQLNLRLLK KHNYNILQVV TELLQLNNND
	WYSQRY
	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 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 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®):
	 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:	NBR1
Alternative Name:	NBR1 (NBR1 Products)
Background:	Next to BRCA1 gene 1 protein (Cell migration-inducing gene 19 protein) (Membrane component
	chromosome 17 surface marker 2) (Neighbor of BRCA1 gene 1 protein) (Protein 1A1-
	3B),FUNCTION: Ubiquitin-binding autophagy adapter that participates in different processes
	including host defense or intracellular homeostasis (PubMed:33577621, PubMed:24692539).
	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 (PubMed:24879152, PubMed:34471133). Plays a role in the regulation of the innate
	immune response by modulating type I interferon production and targeting ubiquitinated IRF3
	for autophagic degradation (PubMed:35914352). In response to oxidative stress, promotes an
	increase in SQSTM1 levels, phosphorylation, and body formation by preventing its autophagic
	degradation (By similarity). In turn, activates the KEAP1-NRF2/NFE2L2 antioxidant pathway (By
	similarity). Plays also non-autophagy role by mediating the shuttle of IL-12 to late endosome for
	subsequent secretion (By similarity). {ECO:0000250 UniProtKB:P97432,
	EC0:0000269 PubMed:19250911, EC0:0000269 PubMed:24692539,
	EC0:0000269 PubMed:24879152, EC0:0000269 PubMed:33577621,
	ECO:0000269 PubMed:34471133, ECO:0000269 PubMed:35914352}.

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Target Details	
Molecular Weight:	107.4 kDa
UniProt:	Q14596
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.
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 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
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

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

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