

Datasheet for ABIN7563548
NBR1 Protein (AA 1-988) (His tag)



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Overview

Quantity:	1 mg
Target:	NBR1
Protein Characteristics:	AA 1-988
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NBR1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Nbr1 Protein expressed in mammalien cells.
Sequence:	<p>MEPQVTLNVT FKNETQSFLV SDPENTTWAD VEAMVKVSFD LNTIQIKYLD EENEEISINS QGEYEEALKM ANIKQGNQLQ MQVHEGYHVV DEALPKNVVE NQAAARTGKK PLAHYSSLVR VLGSDMKTTE EPAPEQCSSA PCDTDQPQDK PPDWFTSYLE MFREQVVKET VEKLEQLRQE KLVLQKPLLS SSPTEVSMPI SEETLFLPEN QFSWHIACSH CQKRIVGVRY QCSLCPYSNI CEDCEAGPYT HDTNHVLLKL RRPVVISSEP FFYSKYSAPR LPAALEQVRL QKQVDKNFVK AEQRLRAEK QQRKAEVKEL KKQLKLRKI HLWNSIHGLQ SPKSPLGRPE SLLQSNTLML PLQPCAPVMP TLSAAFVDEN LPDGTHLQPG TKFIKHWRMK NTGNVKNWNTD TKLKFMWGNL TLASTEKKDV LVPCLKAGHV GVVSVEFIAP TLEGTYTSHW RLSHKGQQFG PRVWCSIIVD PFPSSSPDN VEGDRISSSK ADDFSCEQEE AFLLAEEEEIP LGEVTKQTEG TGASASQKTR RAASERELYI PSVDLLTAQD LLSFELLDIN IVQELERVPH NTPVDMTPCM SPLPHDSPLI EKPLGLGQIQE ESEGAGFKAP PDSTVSAKRK AETPASVEET EEDLSGTQFV CETVIRSLTL</p>

Product Details

DAAPDHNPPC RQRSPQRELQ LYSTEGQQPL VLPGFCKRDS SLKFALPEEG PRGDEREEIV
HIVEEEVVEE EEEVQDEEVQ SQSSASSEDY IILPECFDT SRPLGDSMYS SALSQPGLER
GAEGEPGIES GLEPTEARER LPERESQPQE QSISDILTTS QPLDTVPLVP EVAGLPAALS
RSAPCGQCES SGVDSPGVDS PATMHEVPPA PDDIRGEPRG STGLANSRQR SCDHSRHHNG
SSIAGGLVKG ALSVAASAYK ALFSGPPVTA QPIVSEDQTT ALMAHLFEMG FCDRLNLRL
LRKHNYNILQ VVTELLQVNN NDWYSHRY **Sequence without tag. The proposed Purification-
Tag is based on experiences 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 to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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

Target Details

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.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months