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Datasheet for ABIN7554691  
**NBR1 Protein (AA 1-966) (His tag)**

## Overview

Quantity:	1 mg
Target:	NBR1
Protein Characteristics:	AA 1-966
Origin:	Human
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 recombinant NBR1 Protein expressed in mammalian cells.
Sequence:	MEPQVTLNVT FKNEIQSFLV SDPENTTWAD IEAMVKVSFD LNTIQIKYLD EENEEVSINS QGEYEEALKM AVKQGNQLQM QVHEGHHVVD EAPPPVVGAK RLAARAGKKP LAHYSSLVRV LGSDMKTPED PAVQSFP LVP CDTDQPQDKP PDWFTSYLET FREQVNETV EKLEQKLHEK LVLQNPSLGS CPSEVSMPTS EETLFLPENQ FSWHIACNNC QRRIVGVRYQ CSLCPSYNIC EDCEAGPYGH DTNHVLLKLR RPVVGSSPEF CHSKYSTPRL PAALEQVRLQ KQVDKNFLKA EKQRLRAEKK QRKAEVKELK KQLKLRKIH LWNSIHGLQS PKSPLGRPES LLQSNTLMMLP LQPCTSVMPM LSAAFVDENL PDGTHLQPGT KFIKHWRMKN TGNVKWSADT KLKFMWGNLT LASTEKDVL VPCLKAGHVG VVSVEFIAPA LEGTYTSHWR LSHKGQFGP RVWC SIIVDP FPSEESPDNI EKGMISSKT DDLTCQEEET FLLAKEERQL GEVTEQTEGT AACIPQKAKN VASERELYIP SVDLLTAQDL LSFELLDINI VQELERVPHN TPVDVTPCMS PLPHDSPLIE KPGLGQIEEE NEGAGFKALP DSMVSVKRKA ENIASVEEAE EDLSGTQFVC ETVIRSLTLD

## Product Details

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AAPDHNPPCR QKSLQMTFAL PEGPLGNEKE EIIHIAEEEE VMEEEEDEED EEEEDELKDE  
VQSQSSASSE DYIIILPECF DTSRPLGDSM YSSALSQPGL ERGAEGKPGV EAGQEPAEAG  
ERLPGGENQP QEHSISDILT TSQTLETVPL IPEVVLPSPS LPRSSPCVHH HGSPGVLDLPV  
TIPEVSSVPD QIRGEPRGSS GLVNSRQKSY DHSRHHHGSS IAGGLVKGAL SVAASAYKAL  
FAGPPVTAQP IISEDQTAAL MAHLFEMGFC DRQLNLRLK KHNYNILQVV TELLQLNNND  
WYSQRY **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.**

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### 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.

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### Purity:

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

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### Grade:

custom-made

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## Target Details

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### Target:

NBR1

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### Alternative Name:

NBR1 ([NBR1 Products](#))

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### 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

## Target Details

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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, ECO:0000269|PubMed:19250911, ECO:0000269|PubMed:24692539, ECO:0000269|PubMed:24879152, ECO:0000269|PubMed:33577621, ECO:0000269|PubMed:34471133, ECO:0000269|PubMed:35914352}.

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Molecular Weight: 107.4 kDa

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UniProt: [Q14596](#)

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Pathways: [Autophagy](#)

## Application Details

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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.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months