

Datasheet for ABIN7549801

Mare/Nprl3/C16orf35 Protein (AA 1-569) (His tag)[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	Mare/Nprl3/C16orf35 (C16orf35)
Protein Characteristics:	AA 1-569
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Mare/Nprl3/C16orf35 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat NPRL3 Protein expressed in mammalian cells.
Sequence:	MRDNTSPISV ILVSSGSRGN KLLFRYPFQR SQEHPASQTS KPRSRYAASN TGDHADEQDG DSRFSDVILA TILATKSEMC GQKFELKIDN VRFVGHPTLL QHALGQISKD DPSPKREAPT MILFNVFAL RANADPSVIN CLHNLSRRIA TVLQHEERRC QYL TREAKLI LALQDEVSAM ADGNEGQSP FHHILPKCKL ARDLKEAYDS LCTSGVVRLH INSWLEVSFC LPHKIHYAAS SLIPPEAIER SLKAIRPYHA LLLL SDEKSL LGELPIDCSP ALVRVIKTTTS AVKNLQQLAQ DADLALLQVF QLA AHLVYWG KAI IYPLCE NNVYMLSPNA SVCLYSPLAE QFSHQFPSHD LPSVLAKFSL PVSLSEFRNP LAPAVQETQL IQMVVWMLQR RLLIQLHTYV CLMASPSEEE PRPREDDVPF TARVGGRSLS TPNAL SFGSP TSSDDMTLTS PSMDN S SAE L LPSGD S PLNQ RMTENLLASL SEHERAA ILS VPAAQNPEDL RMFARLLHYF RGRHHLEEIM YNENTRRSQL LMLFDKFRSV LVVTT HEDPV IAVFQALLP 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:

Mare/Nprl3/C16orf35 (C16orf35)

Alternative Name:

NPRL3 ([C16orf35 Products](#))

Background:

GATOR1 complex protein NPRL3 (-14 gene protein) (Alpha-globin regulatory element-containing gene protein) (Nitrogen permease regulator 3-like protein) (Protein CGTHBA),FUNCTION: As a component of the GATOR1 complex functions as an inhibitor of the amino acid-sensing branch of the mTORC1 pathway (PubMed:23723238, PubMed:29590090, PubMed:35338845). In response to amino acid depletion, the GATOR1 complex has GTPase activating protein (GAP) activity and strongly increases GTP hydrolysis by RagA/RRAGA (or RagB/RRAGB) within heterodimeric Rag complexes, thereby turning them into their inactive GDP-bound form, releasing mTORC1 from lysosomal surface and inhibiting mTORC1 signaling (PubMed:23723238, PubMed:29590090, PubMed:35338845). In the presence of abundant amino acids, the GATOR1 complex is negatively regulated by GATOR2, the other GATOR subcomplex, in this amino acid-sensing branch of the TORC1 pathway (PubMed:23723238).

Target Details

{ECO:0000269|PubMed:23723238, ECO:0000269|PubMed:29590090, ECO:0000269|PubMed:35338845}.

Molecular Weight: 63.6 kDa

UniProt: [Q12980](#)

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