Datasheet for ABIN7554752

Nogo B Receptor Protein (NUS1) (AA 1-293) (His tag)

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Overview

Quantity:	1 mg
Target:	Nogo B Receptor (NUS1)
Protein Characteristics:	AA 1-293
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Nogo B Receptor protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat NUS1 Protein expressed in mammalien cells.
Sequence:	MTGLYELVWR VLHALLCLHR TLTSWLRVRF GTWNWIWRRC CRAASAAVLA PLGFTLRKPP AVGRNRRHHR HPRGGSCLAA AHHRMRWRAD GRSLEKLPVH MGLVITEVEQ EPSFSDIASL VVWCMAVGIS YISVYDHQGI FKRNNSRLMD EILKQQQELL GLDCSKYSPE FANSNDKDDQ VLNCHLAVKV LSPEDGKADI VRAAQDFCQL VAQKQKRPTD LDVDTLASLL SSNGCPDPDL VLKFGPVDST LGFLPWHIRL TEIVSLPSHL NISYEDFFSA LRQYAACEQR LGK **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.

Product Details

	• Protein expressed in mammalien 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:	Nogo B Receptor (NUS1)
Alternative Name:	NUS1 (NUS1 Products)
Background:	Dehydrodolichyl diphosphate synthase complex subunit NUS1 (EC 2.5.1.87) (Cis-prenyltransferase subunit NgBR) (Nogo-B receptor) (NgBR) (Nuclear undecaprenyl pyrophosphate synthase 1 homolog),FUNCTION: With DHDDS, forms the dehydrodolichyl diphosphate synthase (DDS) complex, an essential component of the dolichol monophosphate (Dol-P) biosynthetic machinery. Both subunits contribute to enzymatic activity, i.e. condensation of multiple copies of isopentenyl pyrophosphate (IPP) to farnesyl pyrophosphate (FPP) to produce dehydrodolichyl diphosphate (Dedol-PP), a precursor of dolichol phosphate which is utilized as a sugar carrier in protein glycosylation in the endoplasmic reticulum (ER) (PubMed:21572394, PubMed:25066056, PubMed:28842490, PubMed:32817466). Synthesizes long-chain polyprenols, mostly of C95 and C100 chain length (PubMed:32817466). Regulates the glycosylation and stability of nascent NPC2, thereby promoting trafficking of LDL-derived cholesterol. Acts as a specific receptor for the N-terminus of Nogo-B, a neural and cardiovascular regulator (PubMed:16835300). {ECO:0000269|PubMed:16835300, ECO:0000269|PubMed:21572394, ECO:0000269|PubMed:25066056, ECO:0000269|PubMed:28842490, ECO:0000269|PubMed:32817466}.

Target Details

Molecular Weight:	33.2 kDa
UniProt:	Q96E22

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

