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Nogo B receptor Rabbit pAb

Catalog # AP53647

Product Information

Primary Accession	Q96E22
Host	Rabbit
Clonality	Polyclonal Antibody
Calculated MW	33224

Additional Information

Gene ID	116150
Other Names	NgBR; MRD55; CDG1AA; C6orf68; TANGO14; MGC:7199
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

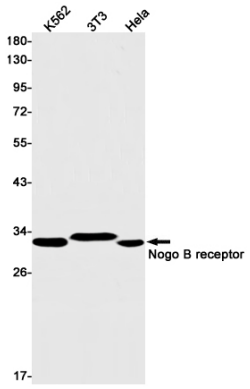
Name	NUS1 {ECO:0000303|PubMed:28842490, ECO:0000312|HGNC:HGNC:21042}
Function	With DHDDS, forms the dehydrodolichyl diphosphate synthase (DDS) complex, an essential component of the dolichol monophosphate (Dol-P) biosynthetic machinery (PubMed:21572394, PubMed:25066056, PubMed:28842490, PubMed:32817466, PubMed:33077723). 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, PubMed:33077723). 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 (PubMed:21572394). Acts as a specific receptor for the N-terminus of Nogo-B, a neural and cardiovascular regulator (PubMed:16835300).
Cellular Location	Endoplasmic reticulum membrane; Multi-pass membrane protein. Note=Colocalizes with Nogo-B during VEGF and wound healing angiogenesis

Background

Swiss-Prot Acc.Q96E22.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). 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).

Images



Western blot detection of Nogo B receptor in K562,3T3,Hela cell lysates using Nogo B receptor Rabbit pAb(1:1000 diluted).Predicted band size:33kDa.Observed band size:33kDa.

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