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DHDDS antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI12964

Product Information

Application	WB
Primary Accession	Q86SQ9
Other Accession	NM_024887, NP_079163
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Zebrafish, Pig, Chicken, Dog, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	38657

Additional Information

Gene ID	79947
Alias Symbol	CIT, CPT, DS, FLJ13102, HDS, RP59
Other Names	Dehydrodolichyl diphosphate syntase complex subunit DHDDS, 2.5.1.87, Cis-isoprenyltransferase, CIT, Cis-IPTase, Epididymis tissue protein Li 189m, DHDDS, HDS
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-DHDDS antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	DHDDS antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

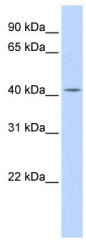
Name	DHDDS {ECO:0000303|PubMed:21295283, ECO:0000312|HGNC:HGNC:20603}
Function	With NUS1, forms the dehydrodolichyl diphosphate synthase (DDS) complex, an essential component of the dolichol monophosphate (Dol-P) biosynthetic machinery (PubMed:25066056, PubMed:28842490, PubMed:32817466, PubMed:33077723). 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: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).
Cellular Location	Endoplasmic reticulum membrane; Peripheral membrane protein. Note=colocalizes with calnexin
Tissue Location	Ubiquitous (PubMed:21295282). Expressed at high levels in testis and kidney (PubMed:20736409). Expressed in epididymis (at protein level) (PubMed:20736409).

References

Endo S.,et al.Biochim. Biophys. Acta 1625:291-295(2003).
Li J.,et al.Mol. Cell. Proteomics 9:2517-2528(2010).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Gregory S.G.,et al.Nature 441:315-321(2006).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.

Images



WB Suggested Anti-DHDDS Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:312500
Positive Control: Human Placenta

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.