

DHDDS antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI12964**Specification****DHDDS antibody - N-terminal region - Product Information**

Application	WB
Primary Accession	Q86SQ9
Other Accession	NM_024887 , NP_079163
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig, Dog
Predicted	Human, Mouse, Rat, Pig, Chicken, Horse, Bovine, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	39kDa kDa

DHDDS antibody - N-terminal region - Additional Information**Gene ID** 79947**Alias Symbol** CIT, CPT, DS, FLJ13102, HDS, RP59**Other Names**

Dehydrololichyl diphosphate synthase 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.

DHDDS antibody - N-terminal region - Protein Information**Name** DHDDS {ECO:0000303|PubMed:21295283, ECO:0000312|HGNC:HGNC:20603}**Function**

With NUS1, forms the dehydrololichyl 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 dehydrololichyl diphosphate (Dedol-PP), a precursor of dolichol phosphate which is utilized as a sugar carrier in protein glycosylation in the endoplasmic reticulum (ER) (PubMed:<a href="http://www.uniprot.org/citations/25066056"

target="_blank">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 (PubMed:21572394).

Cellular Location

Endoplasmic reticulum membrane; Peripheral membrane protein. Note=colocalizes with calnexin

Tissue Location

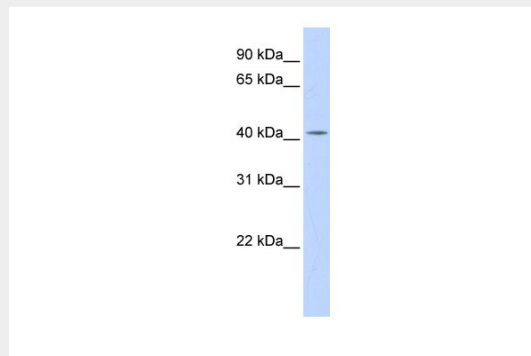
Expressed at high levels in testis and kidney. Expressed in epididymis (at protein level). Slightly expressed in heart, spleen and thymus.

DHDDS antibody - N-terminal region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

DHDDS antibody - N-terminal region - Images



WB Suggested Anti-DHDDS Antibody Titration: 0.2-1 µg/ml

ELISA Titer: 1:312500

Positive Control: Human Placenta

DHDDS antibody - N-terminal region - 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.