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DPH2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP18264a

Specification

DPH2 Antibody (N-term) - Product Information

Application	**WB,E**
Primary Accession	Q9BQC3
Other Accession	NP_001375.2
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**52083**
Antigen Region	**121-148**

DPH2 Antibody (N-term) - Additional Information

Gene ID 1802

Other Names
Diphthamide biosynthesis protein 2, DPH2 homolog, HsDph2, Diphthamide biosynthesis protein 2 homolog-like 2, DPH2-like 2, DPH2, DPH2L2

Target/Specificity
This DPH2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 121-148 amino acids from the N-terminal region of human DPH2.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
DPH2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

DPH2 Antibody (N-term) - Protein Information

Name DPH2

Synonyms DPH2L2

Function Required for the first step of diphthamide biosynthesis, a post-translational modification of histidine which occurs in elongation factor 2 (PubMed:32576952). DPH1 and DPH2 transfer a 3-amino-3- carboxypropyl (ACP) group from S-adenosyl-L-methionine (SAM) to a histidine residue, the reaction is assisted by a reduction system comprising DPH3 and a NADH-dependent reductase (By similarity). Facilitates the reduction of the catalytic iron-sulfur cluster found in the DPH1 subunit (By similarity).

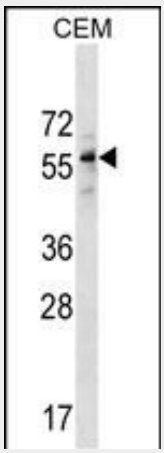
Tissue Location
Strongly expressed in skeletal muscle. Moderately expressed in heart, small intestine, liver, pancreas, testis and colon Weakly expressed in brain, placenta, kidney, spleen, thymus, prostate, ovary and lymphocytes.

DPH2 Antibody (N-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

DPH2 Antibody (N-term) - Images



DPH2 Antibody (N-term) (Cat. #AP18264a) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the DPH2 antibody detected the DPH2 protein (arrow).

DPH2 Antibody (N-term) - Background

This gene is one of two human genes similar to the yeast gene dph2. The yeast gene was identified by its ability to complement a diphthamide mutant strain, and thus probably functions in diphthamide biosynthesis. Diphthamide is a post-translationally modified histidine residue present in elongation factor 2 (EF2) that is the target of diphtheria toxin ADP-ribosylation. Two

transcript variants encoding different isoforms have been found for this gene.

DPH2 Antibody (N-term) - References

Rose, J. Phd, et al. Mol. Med. (2010) In press :
Liu, S., et al. Mol. Cell. Biol. 24(21):9487-9497(2004)
Schultz, D.C., et al. Genomics 52(2):186-191(1998)
Foley, B.T., et al. J. Biol. Chem. 270(39):23218-23225(1995)
Mattheakis, L.C., et al. Gene 132(1):149-154(1993)