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DPH2 Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant DPH2.
Catalog # AT1813a

Product Information

Application	WB, IF, E
Primary Accession	Q9BQC3
Other Accession	NM_001384
Reactivity	Human, Rat
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	5B10
Calculated MW	52083

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	DPH2 (NP_001375, 125 a.a. ~ 235 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	DPH2 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

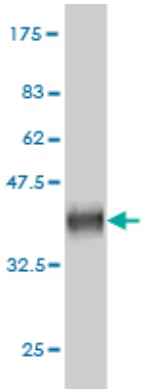
This gene is one of two human genes similar to the yeast gene dph2. The yeast gene was identified by its ability to complement a diphthamide mutant strain, and thus probably functions in diphthamide biosynthesis. Diphthamide is a post-translationally modified histidine residue present in elongation factor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

References

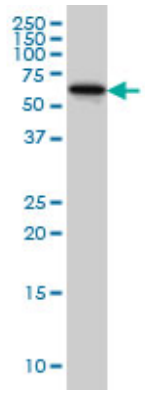
Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype

score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.Identification of the proteins required for biosynthesis of diphthamide, the target of bacterial ADP-ribosylating toxins on translation elongation factor 2. Liu S, et al. Mol Cell Biol, 2004 Nov. PMID 15485916.Complete sequencing and characterization of 21,243 full-length human cDNAs. Ota T, et al. Nat Genet, 2004 Jan. PMID 14702039.Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. Strausberg RL, et al. Proc Natl Acad Sci U S A, 2002 Dec 24. PMID 12477932.Cloning and localization of a human diphthamide biosynthesis-like protein-2 gene, DPH2L2. Schultz DC, et al. Genomics, 1998 Sep 1. PMID 9782084.

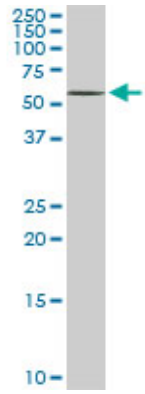
Images



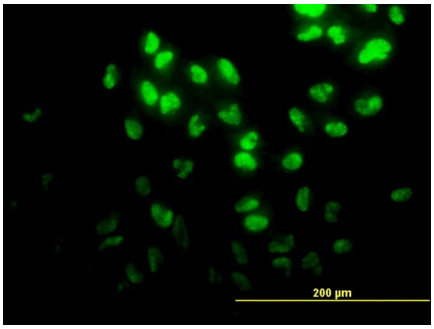
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.95 KDa) .



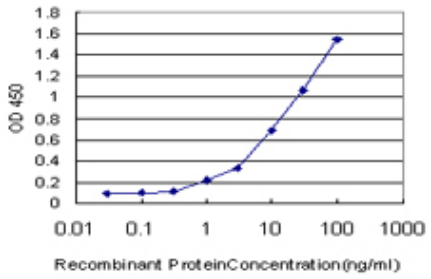
DPH2 monoclonal antibody (M02), clone 5B10 Western Blot analysis of DPH2 expression in HeLa ((Cat # AT1813a)



DPH2 monoclonal antibody (M02), clone 5B10. Western Blot analysis of DPH2 expression in PC-12((Cat # AT1813a)



Immunofluorescence of monoclonal antibody to DPH2 on HeLa cell. [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged DPH2 is approximately 0.3ng/ml as a capture antibody.

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