

DPH1 Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant DPH1.

Catalog # AT1812a

Product Information

Application	WB, IF
Primary Accession	Q9BZG8
Other Accession	NM_001383
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2b Kappa
Clone Names	2C5
Calculated MW	48134

Additional Information

Gene ID	1801
Other Names	Diphthamide biosynthesis protein 1, DPH1 homolog, HsDph1, Diphthamide biosynthesis protein 2 homolog-like 1, DPH-like 1, DPH2-like 1, Diphthamide biosynthesis protein 2-like, Ovarian cancer-associated gene 1 protein, DPH1, DPH2L, DPH2L1, OVCA1
Target/Specificity	DPH1 (NP_001374, 216 a.a. ~ 324 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
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	DPH1 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

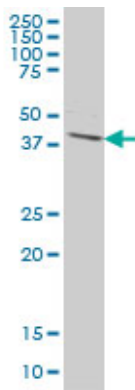
Background

Diphthamide is a unique posttranslationally modified histidine found only in translation elongation factor-2 (EEF2; MIM 130610). This modification is conserved from archaeobacteria to humans and serves as the target for ADP-ribosylation and inactivation of EEF2 by diphtheria toxin (DT) and Pseudomonas exotoxin A. DPH1 is 1 of several enzymes involved in synthesis of diphthamide in EEF2 (Liu et al., 2004 [PubMed 15485916]).

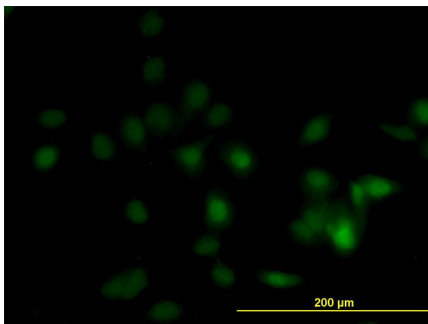
References

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. Refinement of a 400-kb critical region allows genotypic differentiation between isolated lissencephaly, Miller-Dieker syndrome, and other phenotypes secondary to deletions of 17p13.3. Cardoso C, et al. Am J Hum Genet, 2003 Apr. PMID 12621583. 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, structure, and expression of the mouse Ovca1 gene. Chen CM, et al. Biochem Biophys Res Commun, 2001 Sep 7. PMID 11527402.

Images



DPH1 monoclonal antibody (M02), clone 2C5 Western Blot analysis of DPH1 expression in HeLa (Cat # L013V1).



Immunofluorescence of monoclonal antibody to DPH1 on HeLa cell. [antibody concentration 10 ug/ml]

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