DPH1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	DPH1, Monoclonal Antibody
Full Product Name	DPH1 (Diphthamide Biosynthesis Protein 1, DPH2-like 1, DPH2L1, DPH2L, FLJ33211, Ovarian Cancer Associated Gene 1, OVCA1) (AP)
Product Gene Name	anti-DPH1 antibody
Clonality	Monoclonal
Isotype	IgG2b,k
Clone Number	2C5
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human DPH1.
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only pri immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	49kDa
OMIM	603527
3D Structure	ModBase 3D Structure for Q9BZG8
Immunogen	Partial recombinant corresponding to aa216-324 from DPH1 (NP_001374) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	ILGCTSPRLSKEVEAVVYLGDGRFHLESVMIANPNVPAYRYDPYSKVLSREHYDHQRMQAARQEAIATARSAKSWGLILGTLGRQGSPKILEHLESRLRAL
Conjugate	AP
Product Categories/Family for anti-DPH1 antibody	Antibodies; Oncoproteins
Applications Tested/Suitable for anti-DPH1 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-DPH1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-DPH1 antibody	MBS6130992 is an antibody targeting DPH1. Also known as DPH1 (Diphthamide Biosynthesis Protein 1, DPH2-like 1, DPH2L1, DPH2L, FLJ33211, Ov Cancer Associated Gene 1, OVCA1) (AP). Reactive in Human. Host: Mouse.

Other Notes	Small volumes of anti-DPH1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necess centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional may apply.



Western Blot (WB) of anti-DPH1 antibody
DPH1 monoclonal antibody. Western Blot analysis of DPH1 expression in HeLa.



Immunofluorescence (IF) of anti-DPH1 antibody
Immunofluorescence of monoclonal antibody to DPH1 on HeLa cell. [antibody concentration 10ug/ml].

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DPH1. It may not necessarily be applicable to this product.

NCBI GI #	116686106
NCBI GeneID	1801
NCBI Accession #	NP_001374
UniProt Primary Accession #	Q9BZG8
UniProt Related Accession #	Q9BZG8
GenBank Nucleotide #	NM_001383
NCBI Official Full Name	2-(3-amino-3-carboxypropyl)histidine synthase subunit 1 isoform 1
NCBI Official Synonym Full Names	diphthamide biosynthesis 1
NCBI Official Symbol	DPH1
NCBI Official Synonym Symbols	DPH2L; OVCA1; DEDSSH; DPH2L1
UniProt Protein Name	Diphthamide biosynthesis protein 1
UniProt Synonym Protein Names	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
Protein Family	Deubiquitination-protection protein
UniProt Gene Name	DPH1
UniProt Synonym Gene Names	DPH2L; DPH2L1; OVCA1
UniProt Entry Name	DPH1_HUMAN
NCBI Protein Information	2-(3-amino-3-carboxypropyl)histidine synthase subunit 1
NCBI Summary for DPH1	The protein encoded by this gene is an enzyme involved in the biosynthesis of diphthamide, a modified histidine found only in elongation factor-2 (EEF2). Diphthamide residues in EEF2 are targeted for ADP-ribosylation by diphtheria toxin and Pseudomonas exotoxin A. Defects in this gene have been associated with both ovarian cancer and autosomal recessive intellectual disability with short stature, craniofacial, and ectodermal anomalies. [provided by RefSeq, Oct 2016]
Research Articles on DPH1	**1.** novel homozygous DPH1 mutation causes intellectual disability and unique craniofacial features
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