# DPH2 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | DPH2, Polyclonal Antibody |
| **Full Product Name** | DPH2 (Diphthamide Biosynthesis Protein 2, DPH2 Homolog, HsDph2, Diphthamide Biosynthesis Protein 2 Homolog-like 2, DPH2-like 2, DPH2L2) (Ma |
| **Product Gene Name** | anti-DPH2 antibody |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650. |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Specificity** | Recognizes human DPH2. |
| **Preparation and Storage** | Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo |
| **OMIM** | AF053003 mRNA |
| **3D Structure** | ModBase 3D Structure for Q9BQC3 |
| **Immunogen** | Full length human DPH2, aa1-489 (NP_001375.2). |
| **Immunogen Sequence** | MESMFSSPAEAALQRETGVPGLLTPLPDLDGVYELERVAGFVRDLGCERVALQFPDQLLGDAVAVAARLEETTGSKMFILGDTAYGSCCVDVLGAEQAG |
| **Conjugate** | MaxLight650 |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-DPH2 antibody** | Antibodies; Oncoproteins |
| **Applications Tested/Suitable for anti-DPH2 antibody** | Western Blot (WB) |
| **Application Notes for anti-DPH2 antibody** | Applications are based on unconjugated antibody. |
| **Related Product Information for anti-DPH2 antibody** | Required for the first step in the synthesis of diphthamide, a post-translational modification of histidine which occurs in translation elongation factor 2. |
| **Other Notes** | Small volumes of anti-DPH2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necess |

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| **Searchable Terms for DPH2 purchase** | MBS6376543 is an antibody targeting DPH2. Also known as DPH2 (Diphthamide Biosynthesis Protein 2, DPH2 Homolog, HsDph2, Diphthamide Biosy |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DPH2. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 21536476 |
| **NCBI GeneID** | 1802 |
| **NCBI Accession #** | NP_001375.2 |
| **UniProt Primary Accession #** | Q9BQC3 |
| **UniProt Related Accession #** | Q9BQC3 |
| **GenBank Nucleotide #** | NM_001384.4 |
| **NCBI Official Full Name** | 2-(3-amino-3-carboxypropyl)histidine synthase subunit 2 isoform a |
| **NCBI Official Synonym Full Names** | diphthamide biosynthesis 2 |
| **NCBI Official Symbol** | DPH2 |
| **NCBI Official Synonym Symbols** | DPH2L2 |
| **UniProt Protein Name** | 2-(3-amino-3-carboxypropyl)histidine synthase subunit 2 |
| **UniProt Synonym Protein Names** | Diphthamide biosynthesis protein 2; Diphtheria toxin resistance protein 2Curated; S-adenosyl-L-methionine:L-histidine 3-amino-3-carboxypropyltransferase 2Curated |
| **Protein Family** | 2-(3-amino-3-carboxypropyl)histidine synthase |
| **UniProt Gene Name** | DPH2 |
| **UniProt Synonym Gene Names** | DPH2L2 |
| **NCBI Protein Information** | 2-(3-amino-3-carboxypropyl)histidine synthase subunit 2 |
| **NCBI Summary for DPH2** | 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. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2016] |
| **UniProt Comments for DPH2** | Required for the first step in the synthesis of diphthamide, a post-translational modification of histidine which occurs in translation elongation factor 2 (EEF2). |
| **Research Articles on DPH2** | **1.** Clinical trial of gene-disease association and gene-environment interaction. (HuGE Navigator) |
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