DPH5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	DPH5, Polyclonal Antibody
Full Product Name	DPH5 Antibody, HRP Conjugated
Product Gene Name	anti-DPH5 antibody
Product Synonym Names	Diphthine methyl ester synthase; EC 2.1.1.314; Diphthamide biosynthesis methyltransferase; DPH5
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95% Protein G Purified
Preparation and Storage	Upon receipt, store at-20 degree C or-80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: DPH5 (MBS7114478) HRP Conjugated Antibody: DPH5 (MBS7114479)
Molecular Weight	26,122 Da
3D Structure	ModBase 3D Structure for Q9H2P9
Immunogen Species	Human
Immunogen	Recombinant Human Diphthine methyl ester synthase protein (138-235AA)
Conjugate	HRP
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, pH 7.4
Product Categories/Family for anti-DPH5 antibody	Signal Transduction
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-DPH5 antibody	ELISA (EIA)
Related Product Information for anti-DPH5 antibody	MBS7114479 is an antibody targeting DPH5. Also known as DPH5 Antibody, HRP Conjugated. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-DPH5 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly 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 dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DPH5. It may not necessarily be applicable to this product.

NCBI GI #	117190326

NCBI GeneID	51611
NCBI Accession #	NP_001070862.1
UniProt Primary Accession #	Q9H2P9
UniProt Secondary Accession #	Q9P017; Q9P0I4; Q9Y319; A8JZY6; D3DT62
UniProt Related Accession #	Q9H2P9
GenBank Nucleotide #	NM_001077394.1
NCBI Official Full Name	diphthine methyl ester synthase isoform a
NCBI Official Synonym Full Names	diphthamide biosynthesis 5
NCBI Official Symbol	DPH5
NCBI Official Synonym Symbols	AD-018; CGI-30; NPD015; HSPC143
UniProt Protein Name	Diphthine methyl ester synthase
UniProt Synonym Protein Names	Diphthamide biosynthesis methyltransferase
Protein Family	Diphthine methyl ester synthase
UniProt Gene Name	DPH5
NCBI Protein Information	diphthine methyl ester synthase
NCBI Summary for DPH5	This gene encodes a component of the diphthamide synthesis pathway. Diphthamide is a post-translationally modified histidine residue found only on translation elongation factor 2. It is conserved from archaebacteria to humans, and is targeted by diphtheria toxin and Pseudomonas exotoxin A to halt cellular protein synthesis. The yeast and Chinese hamster homologs of this protein catalyze the trimethylation of the histidine residue on elongation factor 2, resulting in a diphthine moiety that is subsequently amidated to yield diphthamide. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for DPH5	S-adenosyl-L-methionine-dependent methyltransferase that catalyzes four methylations of the modified target histidine residue in translation elongation factor 2 (EF-2), to form an intermediate called diphthine methyl ester. The four successive methylation reactions represent the second step of diphthamide biosynthesis.
Research Articles on DPH5	**1.** The yeast and Chinese hamster homologs of human DPH5 catalyze the trimethylation step in the biosynthesis of diphthamide
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