HOGA1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HOGA1, Polyclonal Antibody
Full Product Name	HOGA1 Antibody, HRP conjugated
Product Gene Name	anti-HOGA1 antibody
Product Synonym Names	4-hydroxy-2-oxoglutarate aldolase, mitochondrial; Dihydrodipicolinate synthase-like; DHDPS-like protein; Probable 2-keto-4-hydroxyglutarate aldolase; Probable KHG-aldolase; Protein 569272; HOGA1; C10orf65; DHDPSL
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: HOGA1 (MBS7110295) HRP Conjugated Antibody: HOGA1 (MBS7110296)
Molecular Weight	17,954 Da
OMIM	AK289440 mRNA
3D Structure	ModBase 3D Structure for Q86XE5
Immunogen	Recombinant Human 4-hydroxy-2-oxoglutarate aldolase, mitochondrial protein (1-164AA)
Conjugation	HRP
Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH 7.4
Product Categories/Family for anti-HOGA1 antibody	Metabolism; Signal Transduction
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-HOGA1 antibody	ELISA (EIA)
Related Product Information for anti-HOGA1 antibody	MBS7110296 is an antibody targeting HOGA1. Also known as HOGA1 Antibody, HRP conjugated. Reactive in Human. Host: Rabbit. Catalyzes the final step in the metabolic pathway of hydroxyproline.
Other Notes	Small volumes of anti-HOGA1 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 HOGA1. It may not necessarily be applicable to this product.

NCBI GI #	197927274

NCBI GeneID	112817
NCBI Accession #	NP_001128142.1
UniProt Primary Accession #	Q86XE5
UniProt Secondary Accession #	Q5T680; Q5T684; Q711P0; Q8N9F2; Q96EV5; A8K075
UniProt Related Accession #	Q86XE5
GenBank Nucleotide #	NM_001134670.1
NCBI Official Full Name	4-hydroxy-2-oxoglutarate aldolase, mitochondrial isoform 2
NCBI Official Synonym Full Names	4-hydroxy-2-oxoglutarate aldolase 1
NCBI Official Symbol	HOGA1
NCBI Official Synonym Symbols	HP3; NPL2; DHDPS2; DHDPSL; C10orf65
UniProt Protein Name	4-hydroxy-2-oxoglutarate aldolase, mitochondrial
UniProt Synonym Protein Names	Dihydrodipicolinate synthase-like; DHDPS-like protein; Probable 2-keto-4-hydroxyglutarate aldolase; Probable KHG-aldolase; Protein 569272
Protein Family	4-hydroxy-2-oxoglutarate aldolase
UniProt Gene Name	HOGA1
UniProt Synonym Gene Names	C10orf65; DHDPSL; DHDPS-like protein; Probable KHG-aldolase
NCBI Protein Information	4-hydroxy-2-oxoglutarate aldolase, mitochondrial
NCBI Summary for HOGA1	The authors of PMID:20797690 cloned this gene while searching for genes in a region of chromosome 10 linked to primary hyperoxalurea type III. They noted that even though the encoded protein has been described as a mitochondrial dihydrodipicolinate synthase-like enzyme, it shares little homology with E. coli dihydrodipicolinate synthase (Dhdps), particularly in the putative substrate-binding region. Moreover, neither lysine biosynthesis nor sialic acid metabolism, for which Dhdps is responsible, occurs in vertebrate mitochondria. They propose that this gene encodes mitochondrial 4-hydroxyl-2-oxoglutarate aldolase (EC 4.1.3.16), which catalyzes the final step in the metabolic pathway of hydroxyproline, releasing glyoxylate and pyruvate. This gene is predominantly expressed in the liver and kidney, and mutations in this gene are found in patients with primary hyperoxalurea type III. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Nov 2010]
UniProt Comments for HOGA1	Catalyzes the final step in the metabolic pathway of hydroxyproline.
Research Articles on HOGA1	**1.** Results show that HOGA1 harboring mutations found in primary hyperoxaluria is thermally unstable and targeted for proteolytic degradation leading to an absolute loss of function.
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