AUH Antibody

PRODUCT OVERVIEW

Product Name	AUH, Antibody
Full Product Name	AUH Antibody
Product Gene Name	anti-AUH antibody
Molecular Weight	32,508 Da
OMIM	250950
3D Structure	ModBase 3D Structure for Q13825
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-AUH antibody	MBS8505446 is an antibody targeting AUH. Also known as AUH Antibody.
Other Notes	Small volumes of anti-AUH 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 AUH. It may not necessarily be applicable to this product.

NCBI GI #	4502327
NCBI GeneID	549
NCBI Accession #	NP_001689.1
UniProt Primary Accession #	Q13825
UniProt Secondary Accession #	Q8WUE4; B1ALV7; B1ALV8
UniProt Related Accession #	Q13825
GenBank Nucleotide #	NM_001698.2
NCBI Official Full Name	methylglutaconyl-CoA hydratase, mitochondrial isoform 1
NCBI Official Synonym Full Names	AU RNA binding methylglutaconyl-CoA hydratase
NCBI Official Symbol	AUH
UniProt Protein Name	Methylglutaconyl-CoA hydratase, mitochondrial
UniProt Synonym Protein Names	AU-specific RNA-binding enoyl-CoA hydratase; AU-binding protein/enoyl-CoA hydratase; Itaconyl-CoA hydratase
Protein Family	Methylglutaconyl-CoA hydratase
UniProt Gene Name	AUH
UniProt Synonym Gene Names	AU-binding protein/enoyl-CoA hydratase
NCBI Protein Information	methylglutaconyl-CoA hydratase, mitochondrial

NCBI Summary for AUH	This gene encodes bifunctional mitochondrial protein that has both RNA-binding and hydratase activities. The encoded protein is a methylglutaconyl-CoA hydratase that catalyzes the hydration of 3-methylglutaconyl-CoA to 3-hydroxy-3-methyl-glutaryl-CoA, a critical step in the leucine degradation pathway. This protein also binds AU-rich elements (AREs) found in the 3' UTRs of rapidly decaying mRNAs including c-fos, c-myc and granulocyte/ macrophage colony stimulating factor. ARE elements are involved in directing RNA to rapid degradation and deadenylation. This protein is localizes to the mitochondrial matrix and the inner mitochondrial membrane and may be involved in mitochondrial protein synthesis. Mutations in this gene are the cause of 3-methylglutaconic aciduria, type I. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]
UniProt Comments for AUH	Catalyzes the conversion of 3-methylglutaconyl-CoA to 3-hydroxy-3-methylglutaryl-CoA (PubMed:11738050, PubMed:12434311, PubMed:12655555). Also has itaconyl-CoA hydratase activity by converting itaconyl-CoA into citramalyl-CoA in the C5-dicarboxylate catabolism pathway (PubMed:29056341). The C5-dicarboxylate catabolism pathway is required to detoxify itaconate, a vitamin B12-poisoning metabolite (PubMed:29056341). Has very low enoyl-CoA hydratase activity (PubMed:7892223). Was originally identified as RNA-binding protein that binds in vitro to clustered 5'-AUUUA-3' motifs (PubMed:7892223).
Research Articles on AUH	**1.** AUH localizes to the inner mitochondrial membrane and matrix where it associates with mitochondrial ribosomes and regulates protein synthesis.
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