



Anti-AUH (aa 44-135) polyclonal antibody (DPAB-DC2369)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description The methylglutaconyl-CoA hydratase, mitochondrial protein binds to the AU-rich element (ARE), a common element found in the 3' UTR of rapidly decaying mRNA such as c-fos, c-myc and granulocyte/ macrophage colony stimulating factor. ARE elements are involved in directing RNA to rapid degradation and deadenylation. AUH is also homologous to enol-CoA hydratase, an enzyme involved in fatty acid degradation, and has been shown to have intrinsic hydratase enzymatic activity. AUH is thus a bifunctional chimera between RNA binding and metabolic enzyme activity. A possible subcellular localization in the mitochondria has been demonstrated for the mouse homolog of this protein which shares 92% identity with the human protein. It has been suggested that AUH may have a novel role as a mitochondrial located AU-binding protein. Human AUH is expressed as a single mRNA species of 1.8 kb, and translated as a 40-kDa precursor protein which is subsequently processed to a 32-kDa mature form.

Immunogen	AUH (NP_001689, 44 a.a. ~ 135 a.a) partial recombinant protein with GST tag. The sequence is RAGPAIWAQGWVPAAGGPAPKRGYSSEMKTEDELVRHLEENRGIVVLGINRAYGKNSL SKNLIKMLSKAVDALKSDKKVRTIIIRSEVPG
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	AUH AU RNA binding protein/enoyl-CoA hydratase [Homo sapiens (human)]
Official Symbol	AUH
Synonyms	AUH; AU RNA binding protein/enoyl-CoA hydratase; methylglutaconyl-CoA hydratase, mitochondrial; 3-methylglutaconyl-CoA hydratase; AU-binding protein/Enoyl-CoA hydratase; AU-specific RNA-binding enoyl-CoA hydratase; AU RNA binding protein/enoyl-Coenzyme A hydratase; AU RNA-binding protein/enoyl-Coenzyme A hydratase;
Entrez Gene ID	549
Protein Refseq	NP_001689
UniProt ID	Q13825
Chromosome Location	9q22.31
Pathway	Branched-chain amino acid catabolism; acetoacetate + acetyl-CoA; Metabolism of amino acids and derivatives; leucine degradation I
Function	enoyl-CoA hydratase activity; mRNA 3-UTR binding; methylglutaconyl-CoA hydratase activity;