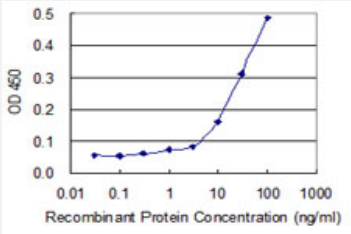
AUH monoclonal antibody (M01), clone 2G12

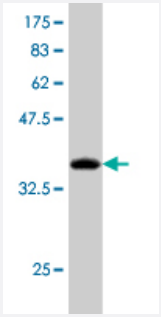
Catalog # H00000549-M01 Size 100 ug

Applications



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged AUH is 3 ng/ml as a capture antibody.



Western Blot detection against Immunogen (35.86 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant AUH.
Immunogen	AUH (NP_001689, 44 a.a. ~ 135 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	RAGPAIWAQGWVPAAGGPAPKRGYSSEMKTEDELRVRHLEEENRGIVVLGINRAYGKNSLSKNLI KMLSKAVDALKSDKKVRTIIIRSEVPG
Host	Mouse
Reactivity	Human

Interspecies Antigen Sequence	Mouse (84); Rat (98)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (35.86 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

  Protocol Download

- Sandwich ELISA (Recombinant protein)

  Detection limit for recombinant GST tagged AUH is 3 ng/ml as a capture antibody.

  Protocol Download

- ELISA

Gene Info — AUH

Entrez GeneID	549
GeneBank Accession#	NM_001698
Protein Accession#	NP_001689
Gene Name	AUH
Gene Alias	-
Gene Description	AU RNA binding protein/enoyl-Coenzyme A hydratase
Omim ID	250950 600529
Gene Ontology	Hyperlink

Gene Summary	AU-specific RNA-binding enoyl-CoA hydratase (AUH) 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. [provided by RefSeq
Other Designations	3-methylglutaconyl-CoA hydratase|AU RNA-binding protein/enoyl-Coenzyme A hydratase|OTTHUMP00000021631

Pathway

- Metabolic pathways
- Valine

Disease

- Cleft Lip
- Cleft Palate
- Tooth Abnormalities