HAGH Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	HAGH, Monoclonal Antibody
Full Product Name	HAGH (Hydroxyacylglutathione Hydrolase, GLO2, GLX2, GLXII, HAGH1) (PE)
Product Gene Name	anti-HAGH antibody
Product Synonym Names	Hydroxyacylglutathione Hydrolase; GLO2; GLX2; GLXII; HAGH1
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	4D3
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified
Specificity	Recognizes HAGH.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recover of product, centrifuge the original vial prior to removing the cap.
OMIM	138760
3D Structure	ModBase 3D Structure for Q16775
Immunogen	HAGH (NP_005317, 161aa-260aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	GRLPPDTRVYCGHEYTINNLKFARHVEPGNAAIREKLAWAKEKYSIGEPTVPSTLAEEFTYNPFMRVREKTVQQHAGETDPVTTMRAVRREKDQFKMPR
Conjugate	PE
Product Categories/Family for anti-HAGH antibody	Antibodies; Enzymes; Glyoxalase
Applications Tested/Suitable for anti-HAGH antibody	ELISA (EIA)
Application Notes for anti-HAGH antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-HAGH antibody	The enzyme encoded by this gene is classified as a thiolesterase and is responsible for the hydrolysis of S-lactoyl-glutathione to reduced glutathione and D-lactate. [provided by RefSeq]

Other Notes	Small volumes of anti-HAGH 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.
Searchable Terms for HAGH purchase	MBS6186857 is an antibody targeting HAGH. Also known as HAGH (Hydroxyacylglutathione Hydrolase, GLO2, GLX2, GLXII, HAGH1) (PE). Host: Mouse.

ADDITIONAL DETAILS

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

NCBI GI #	94538322
NCBI GeneID	3029
NCBI Accession #	NP_005317
UniProt Primary Accession #	Q16775
UniProt Related Accession #	Q16775
GenBank Nucleotide #	NP_005317.2
NCBI Official Full Name	hydroxyacylglutathione hydrolase, mitochondrial isoform 1
NCBI Official Synonym Full Names	hydroxyacylglutathione hydrolase
NCBI Official Symbol	HAGH
NCBI Official Synonym Symbols	GLO2; GLX2; GLXII; HAGH1
UniProt Protein Name	Hydroxyacylglutathione hydrolase, mitochondrial
UniProt Synonym Protein Names	Glyoxalase II; Glx II
UniProt Gene Name	HAGH
UniProt Synonym Gene Names	GLO2; HAGH1; Glx II
UniProt Entry Name	GLO2_HUMAN
NCBI Protein Information	hydroxyacylglutathione hydrolase, mitochondrial
NCBI Summary for HAGH	The enzyme encoded by this gene is classified as a thiolesterase and is responsible for the hydrolysis of S-lactoyl-glutathione to reduced glutathione and D-lactate. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2013]
UniProt Comments for HAGH	HAGH: Thiolesterase that catalyzes the hydrolysis of S-D- lactoyl-glutathione to form glutathione and D-lactic acid. Belongs to the metallo-beta-lactamase superfamily. Glyoxalase II family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Mitochondrial; EC 3.1.2.6; Carbohydrate Metabolism - pyruvate; Hydrolase Chromosomal Location of Human Ortholog: 16p13.3 Cellular Component: mitochondrial matrix; cytoplasm Molecular Function: hydroxyacylglutathione hydrolase activity; zinc ion binding Biological Process: glutathione biosynthetic process Disease: Hydroxyacyl Glutathione Hydrolase Deficiency
Research Articles on HAGH	**1.** Down regulation of Glyoxalase II was observed in cases of diabetic retinopathy as compared to controls.

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