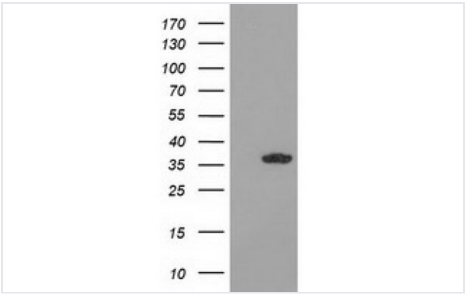
GRHPR Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	GRHPR, Monoclonal Antibody
Full Product Name	GRHPR antibody
Product Gene Name	anti-GRHPR antibody
Product Synonym Names	Monoclonal GRHPR; Anti-GRHPR; Glyoxylate Reductase/Hydroxypyruvate Reductase; GLXR; PH2
Clonality	Monoclonal
Isotype	IgG1
Clone Number	9G2
Host	Mouse
Form/Format	Supplied in PBS buffer, pH 7.3, containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Purity/Purification	GRHPR antibody was purified by affinity chromatography.
Concentration	500 ug-1 mg/ml (lot specific)
Preparation and Storage	Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.
Molecular Weight	27,843 Da
OMIM	260000
3D Structure	ModBase 3D Structure for Q9UBQ7
Cross-Reactivity	Human
Immunogen	GRHPR antibody was raised in mouse using a full length recombinant protein of human GRHPR (NP_036335) produced in HEK293T cells, as the immunogen.
Product Categories/Family for anti-GRHPR antibody	Proteases; Inhibitors; & Enzymes
Applications Tested/Suitable for anti-GRHPR antibody	Flow Cytometry (FC/FACS), Western Blot (WB)
Application Notes for anti-GRHPR antibody	FC: 1:100 WB: 1:2000
Related Product Information for anti-GRHPR antibody	MBS830271 is an antibody targeting GRHPR. Also known as GRHPR antibody. Host: Mouse. Mouse monoclonal GRHPR antibody
Other Notes	Small volumes of anti-GRHPR 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.



Western Blot (WB) of anti-GRHPR antibody
Western Blot analysis of HEK293T cell lysates (5 ug) transfected with either recombinant GRHPR protein (Right) or empty vector (Left) detected with GRHPR antibody

ADDITIONAL DETAILS

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

NCBI GI #	6912396
NCBI GeneID	9380
NCBI Accession #	NP_036335
UniProt Primary Accession #	Q9UBQ7
UniProt Secondary Accession #	Q5T945; Q9H3E9; Q9H636; Q9UKX1
UniProt Related Accession #	Q9UBQ7
GenBank Nucleotide #	NM_012203.1
NCBI Official Full Name	glyoxylate reductase/hydroxypyruvate reductase
NCBI Official Synonym Full Names	glyoxylate reductase/hydroxypyruvate reductase
NCBI Official Symbol	GRHPR
NCBI Official Synonym Symbols	PH2; GLXR; GLYD
UniProt Protein Name	Glyoxylate reductase/hydroxypyruvate reductase
Protein Family	Glyoxylate reductase/hydroxypyruvate reductase
UniProt Gene Name	GRHPR
UniProt Synonym Gene Names	GLXR
UniProt Entry Name	GRHPR_HUMAN
NCBI Protein Information	glyoxylate reductase/hydroxypyruvate reductase
NCBI Summary for GRHPR	This gene encodes an enzyme with hydroxypyruvate reductase, glyoxylate reductase, and D-glycerate dehydrogenase enzymatic activities. The enzyme has widespread tissue expression and has a role in metabolism. Type II hyperoxaluria is caused by mutations in this gene. [provided by RefSeq, Jul 2008]

UniProt Comments for GRHPR	GRHPR: Enzyme with hydroxy-pyruvate reductase, glyoxylate reductase and D-glycerate dehydrogenase enzymatic activities. Reduces hydroxypyruvate to D-glycerate, glyoxylate to glycolate oxidizes D-glycerate to hydroxypyruvate. Defects in GRHPR are the cause of hyperoxaluria primary type 2 (HP2); also known as primary hyperoxaluria type II (PH2). HP2 is a disorder where the main clinical manifestation is calcium oxalate nephrolithiasis though chronic as well as terminal renal insufficiency has been described. It is characterized by an elevated urinary excretion of oxalate and L- glycerate. Belongs to the D-isomer specific 2-hydroxyacid dehydrogenase family. Protein type: Carbohydrate Metabolism - glyoxylate and dicarboxylate; EC 1.1.1.79; EC 1.1.1.81; Oxidoreductase; Carbohydrate Metabolism - pyruvate Chromosomal Location of Human Ortholog: 9q12 Cellular Component: peroxisomal matrix; cytoplasm; cytosol Molecular Function: glyoxylate reductase (NADP) activity; protein homodimerization activity; carboxylic acid binding; NAD binding; hydroxypyruvate reductase activity; glycerate dehydrogenase activity Biological Process: dicarboxylic acid metabolic process; metabolic process; glyoxylate metabolic process; excretion; protein oligomerization Disease: Hyperoxaluria, Primary, Type Ii
Research Articles on GRHPR	**1.** GRHPR was genotyped in Japanese patients with PH2 and all GRHPR mutations described to date were reviewed in terms of geographic and ethnic association
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