10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

GRHPR Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant GRHPR.
Catalog # AT2260a

Product Information

Application	WB, E
Primary Accession	Q9UBQ7
Other Accession	BC000605
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	4E6-1F2
Calculated MW	35668

Additional Information

Gene ID	9380
Other Names	Glyoxylate reductase/hydroxypyruvate reductase, GRHPR, GLXR
Target/Specificity	GRHPR (AAH00605, 1 a.a. ~ 328 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	GRHPR Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

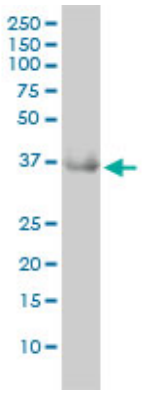
This gene encodes an enzyme with hydroxypyruvate reductase, glyoxylate reductase, and D-glycerate dehydrogenase enzymatic activities. The enzyme has widespread tissue expression and has a role in metabolism. Type II hyperoxaluria is caused by mutations in this gene.

References

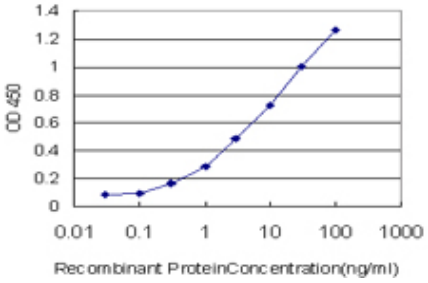
Late diagnosis of primary hyperoxaluria type 2 in the adult: effect of a novel mutation in GRHPR gene on enzymatic activity and molecular modeling. Levin-Iaina N, et al. J Urol, 2009 May. PMID 19296982.A novel mutation in the GRHPR gene in a Japanese patient with primary hyperoxaluria type 2. Takayama T, et al. Nephrol Dial Transplant, 2007 Aug. PMID 17510093.Structural basis of substrate specificity in human

glyoxylate reductase/hydroxypyruvate reductase. Booth MP, et al. J Mol Biol, 2006 Jun 30. PMID 16756993.The LIFEdb database in 2006. Mehrle A, et al. Nucleic Acids Res, 2006 Jan 1. PMID 16381901.Primary hyperoxaluria: from gene defects to designer drugs? Danpure CJ. Nephrol Dial Transplant, 2005 Aug. PMID 15956068.

Images



GRHPR monoclonal antibody (M01), clone 4E6-1F2
Western Blot analysis of GRHPR expression in MCF-7 (Cat # L046V1).



Detection limit for recombinant GST tagged GRHPR is approximately 0.03ng/ml as a capture antibody.