

Product datasheet for **CF501890**

GRHPR Mouse Monoclonal Antibody [Clone ID: OTI4B6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI4B6
Applications:	FC, IHC, WB
Recommended Dilution:	WB: 1:2000, FLOW: 1:100, IHC: 1:50-1:150
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human GRHPR (NP_036335) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	35.5 kDa
Gene Name:	glyoxylate and hydroxypyruvate reductase
Database Link:	NP_036335 Entrez Gene 680021 Rat Entrez Gene 9380 Human Q9UBQ7



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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. [provided by RefSeq]

Synonyms:

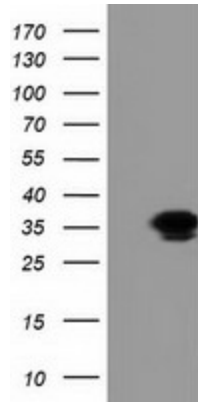
GLXR; GLYD; PH2

Protein Families:

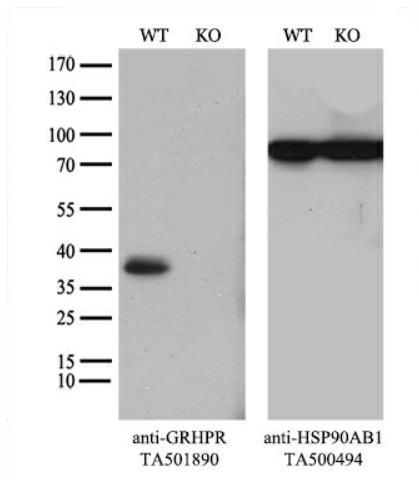
Druggable Genome

Protein Pathways:

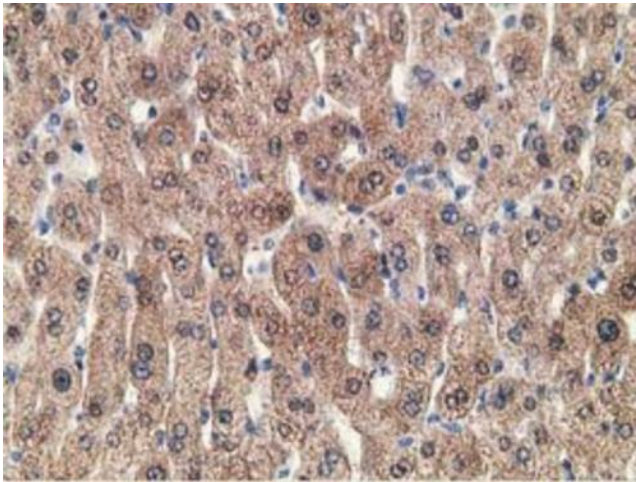
Glyoxylate and dicarboxylate metabolism, Metabolic pathways, Pyruvate metabolism

Product images:


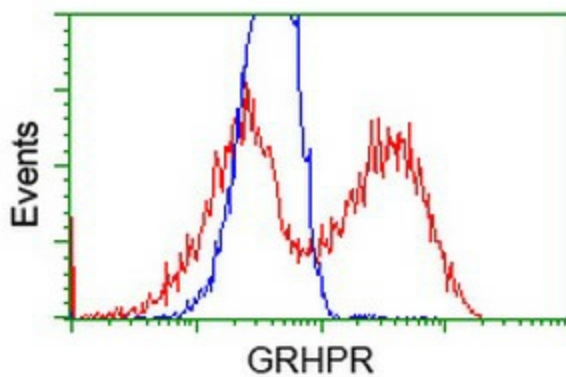
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY GRHPR ([RC200963], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-GRHPR. Positive lysates [LY415912] (100ug) and [LC415912] (20ug) can be purchased separately from OriGene.



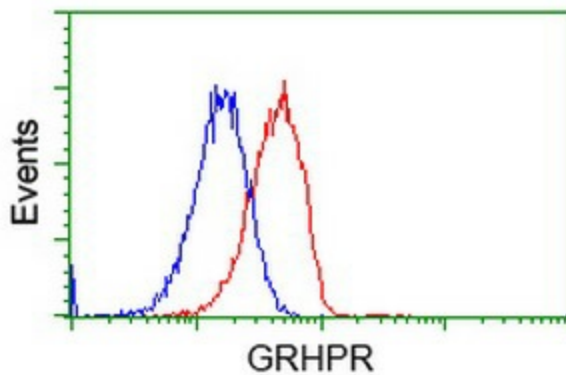
Equivalent amounts of cell lysates (10 ug per lane) of wild-type 293T cells (WT, Cat# LC810293T) and GRHPR-Knockout 293T cells (KO, Cat# [LC841943]) were separated by SDS-PAGE and immunoblotted with anti-GRHPR monoclonal antibody [TA501890] (1:200^ˆ). Then the blotted membrane was stripped and reprobed with anti-HSP90 antibody as a loading control.



Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-GRHPR mouse monoclonal antibody at 1:150 ([TA501890])



HEK293T cells transfected with either [RC200963] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-GRHPR antibody ([TA501890]), and then analyzed by flow cytometry.



Flow cytometric Analysis of HeLa cells, using anti-GRHPR antibody ([TA501890]), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).