

## Product datasheet for **TA502091**

### GRHPR Mouse Monoclonal Antibody [Clone ID: OTI2H4]

#### Product data:

|                         |   |
|-------------------------|---|
| Product Type:           | Primary Antibodies  |
| Clone Name:             | OTI2H4  |
| Applications:           | FC, IHC, WB   |
| Recommended Dilution:   | WB 1:2000, IHC 1:150, FLOW 1:100  |
| Reactivity:             | Human, Mouse, Rat   |
| Host:                   | Mouse   |
| Isotype:                | IgG1  |
| Clonality:              | Monoclonal  |
| Immunogen:              | Full length human recombinant protein of human GRHPR (NP_036335) produced in HEK293T cell.  |
| Formulation:            | PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.  |
| Concentration:          | 0.54 mg/ml  |
| 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:          | <a href="#">NP_036335</a><br><a href="#">Entrez Gene 680021 Rat</a> <a href="#">Entrez Gene 9380 Human</a><br><a href="#">Q9UBQ7</a>  |
| 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, Jul 2008] |
| Synonyms:               | GLXR; GLYD; PH2   |

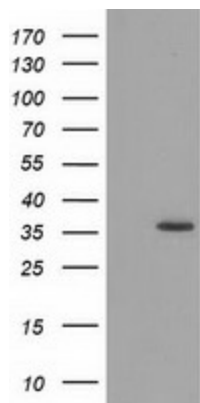


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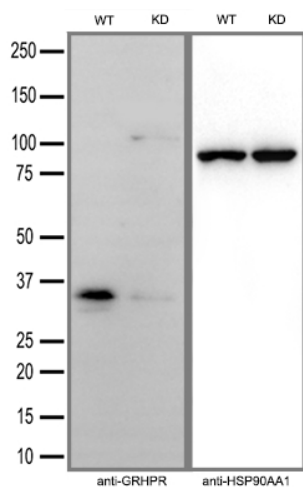
**Protein Families:** Druggable Genome

**Protein Pathways:** Glyoxylate and dicarboxylate metabolism, Metabolic pathways, Pyruvate metabolism

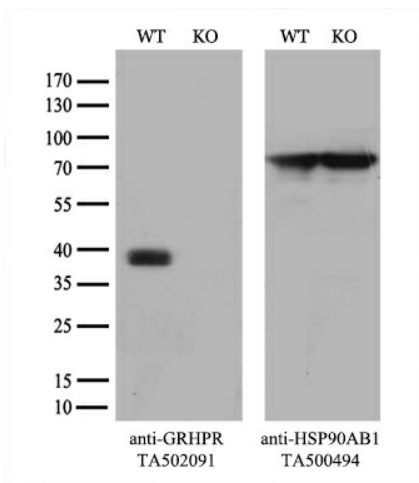
**Product images:**



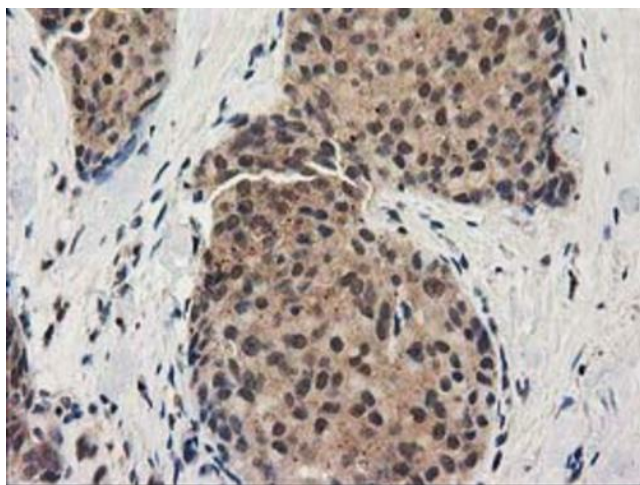
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY GRHPR (Cat# [RC200963], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-GRHPR antibody (Cat# TA502091). Positive lysates [LY415912] (100ug) and [LC415912] (20ug) can be purchased separately from OriGene.



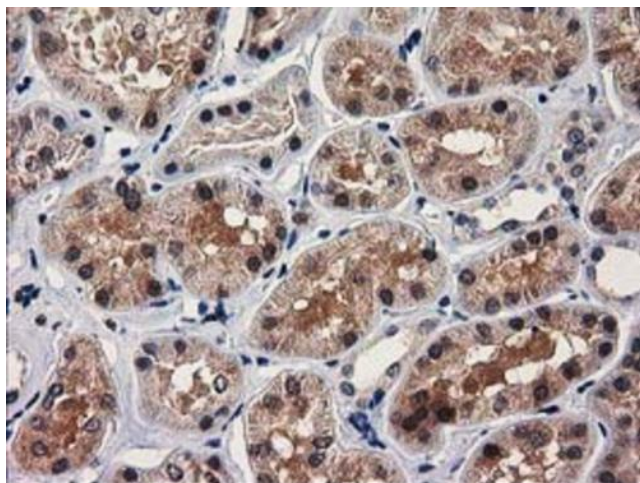
Equivalent amounts of cell lysates (30 ug per lane) of wild-type HeLa cells (WT) and GRHPR-Knockdown HeLa cells (KD) were separated by SDS-PAGE and immunoblotted with anti-GRHPR monoclonal antibody TA502091 (1:5000). Then the blotted membrane was stripped and reprobed with anti-HSP90AA1 antibody as a loading control.



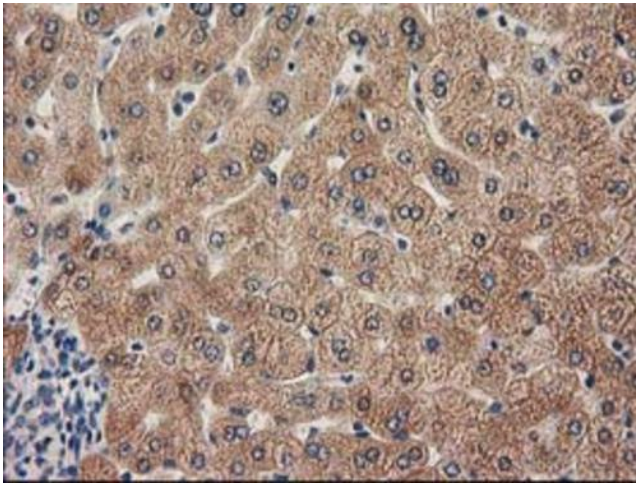
Equivalent amounts of cell lysates (10 ug per lane) of wild-type 293T cells (WT, Cat# LC810293T) and GRHPR-Knockout 293T cells (KO, Cat# [LC841943]) were separated by SDS-PAGE and immunoblotted with anti-GRHPR monoclonal antibody TA502091 (1:500<sup>\*</sup>). Then the blotted membrane was stripped and reprobed with anti-HSP90 antibody as a loading control.



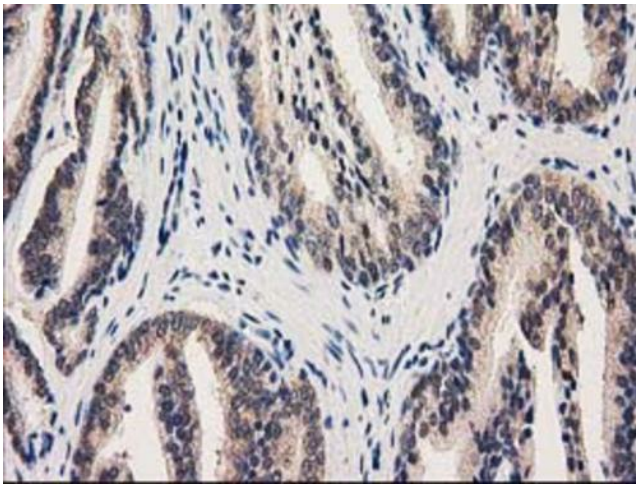
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue using anti-GRHPR mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



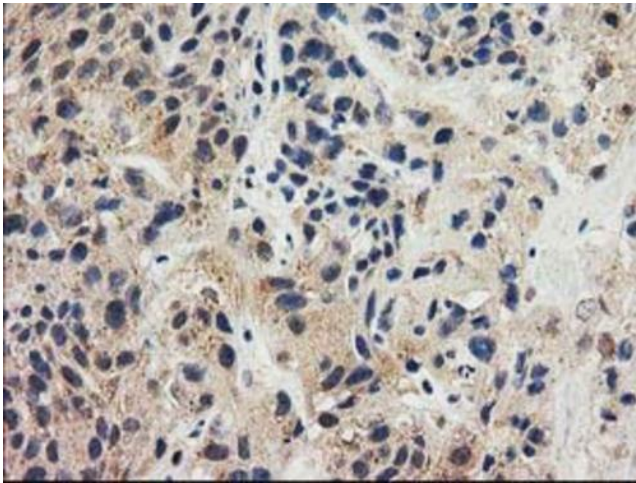
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-GRHPR mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-GRHPR mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

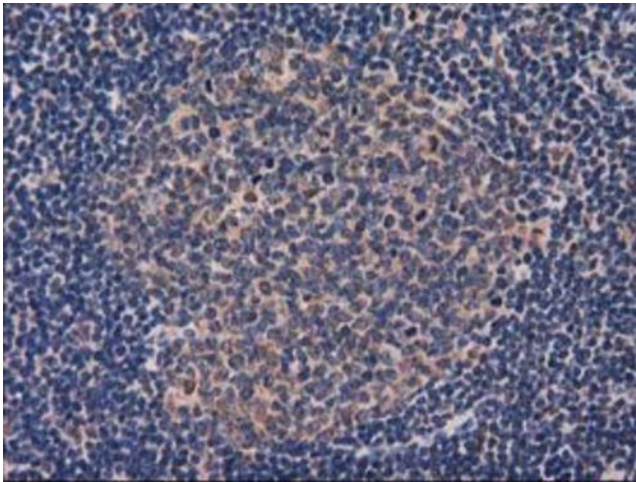


Immunohistochemical staining of paraffin-embedded Carcinoma of Human prostate tissue using anti-GRHPR mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

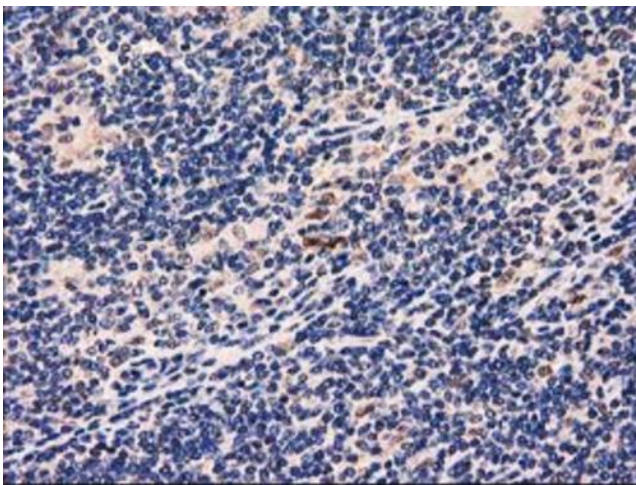


Immunohistochemical staining of paraffin-embedded Carcinoma of Human bladder tissue using anti-GRHPR mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

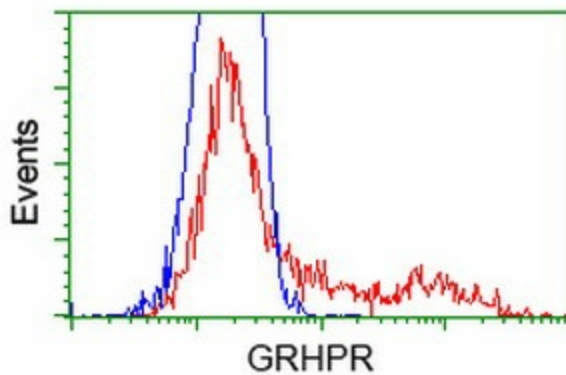




Immunohistochemical staining of paraffin-embedded Human lymph node tissue within the normal limits using anti-GRHPR mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Human lymphoma tissue using anti-GRHPR mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



HEK293T cells transfected with either [RC200963] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-GRHPR antibody (TA502091), and then analyzed by flow cytometry.