

## Product datasheet for **CF503403**

### PGAM2 Mouse Monoclonal Antibody [Clone ID: OT11C11]

#### Product data:

|                         |  |
|-------------------------|--|
| Product Type:           | Primary Antibodies   |
| Clone Name:             | OT11C11  |
| Applications:           | IF, IHC, WB  |
| Recommended Dilution:   | WB 1:2000, IHC 1:150, IF 1:100   |
| Reactivity:             | Human, Mouse, Rat  |
| Host:                   | Mouse  |
| Isotype:                | IgG2b  |
| Clonality:              | Monoclonal   |
| Immunogen:              | Full length human recombinant protein of human PGAM2(NP_000281) 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: | 28.6 kDa   |
| Gene Name:              | phosphoglycerate mutase 2  |
| Database Link:          | <a href="#">NP_000281</a><br><a href="#">Entrez Gene 24959 Rat</a> <a href="#">Entrez Gene 56012 Mouse</a> <a href="#">Entrez Gene 5224 Human</a><br><a href="#">P15259</a>  |



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**Background:**

Phosphoglycerate mutase (PGAM) catalyzes the reversible reaction of 3-phosphoglycerate (3-PGA) to 2-phosphoglycerate (2-PGA) in the glycolytic pathway. The PGAM is a dimeric enzyme containing, in different tissues, different proportions of a slow-migrating muscle (MM) isozyme, a fast-migrating brain (BB) isozyme, and a hybrid form (MB). This gene encodes muscle-specific PGAM subunit. Mutations in this gene cause muscle phosphoglycerate mutase efficiency, also known as glycogen storage disease X. [provided by RefSeq]

**Synonyms:**

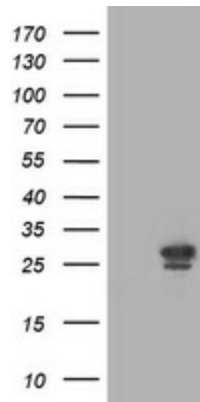
GSD10; PGAM-M; PGAMM

**Protein Families:**

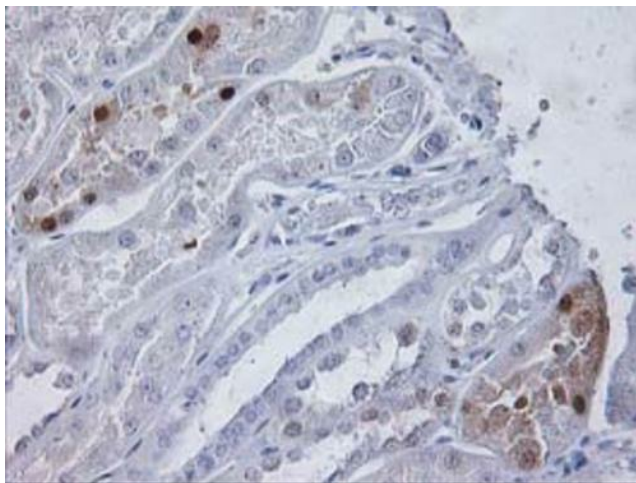
Druggable Genome

**Protein Pathways:**

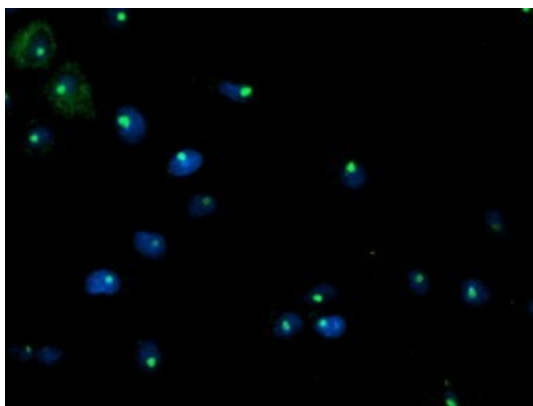
Glycolysis / Gluconeogenesis, Metabolic pathways

**Product images:**

HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY PGAM2 ([RC200701], 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-PGAM2. Positive lysates [LY424823] (100ug) and [LC424823] (20ug) can be purchased separately from OriGene.



Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-PGAM2 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Anti-PGAM2 mouse monoclonal antibody ([TA503403]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY PGAM2 ([RC200701]).