

## Product datasheet for **CF811300**

### **PYGM Mouse Monoclonal Antibody [Clone ID: OTI5D1]**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	OTI5D1
<b>Applications:</b>	IHC, WB
<b>Recommended Dilution:</b>	WB 1:500~2000, IHC 1:2000
<b>Reactivity:</b>	Human, Rat, Mouse
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG1
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Human recombinant protein fragment corresponding to amino acids 698-842 of human PYGM (NP_005600) produced in E.coli.
<b>Formulation:</b>	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
<b>Reconstitution Method:</b>	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)
<b>Purification:</b>	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at -20°C as received.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Gene Name:</b>	glycogen phosphorylase, muscle associated
<b>Database Link:</b>	<a href="#">NP_005600</a> <a href="#">Entrez Gene 19309 Mouse</a> <a href="#">Entrez Gene 24701 Rat</a> <a href="#">Entrez Gene 5837 Human</a> <a href="#">P11217</a>
<b>Background:</b>	This gene encodes a muscle enzyme involved in glycogenolysis. Highly similar enzymes encoded by different genes are found in liver and brain. Mutations in this gene are associated with McArdle disease (myophosphorylase deficiency), a glycogen storage disease of muscle. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2009]



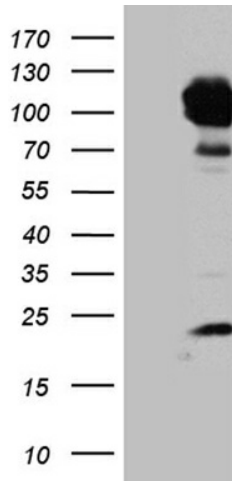
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**Synonyms:** glycogen; glycogen phosphorylase; glycogen storage disease type V; glycogen storage disease type V); McArdle syndrome; muscle; muscle (McArdle syndrome; myophosphorylase; phosphorylase

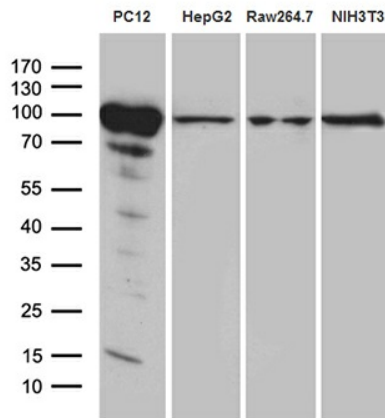
**Protein Families:** Druggable Genome

**Protein Pathways:** Insulin signaling pathway, Starch and sucrose metabolism

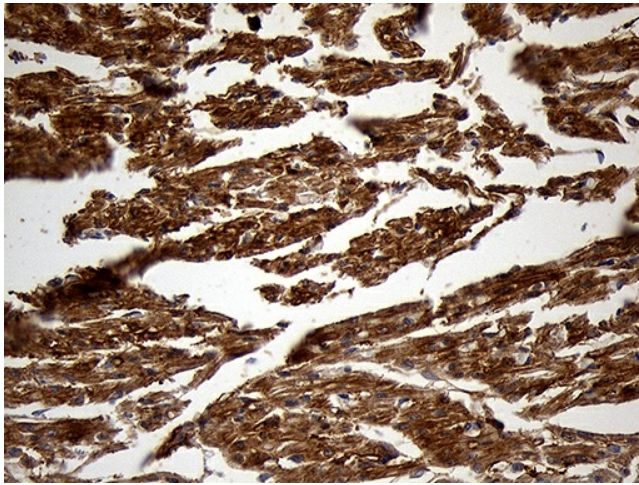
**Product images:**



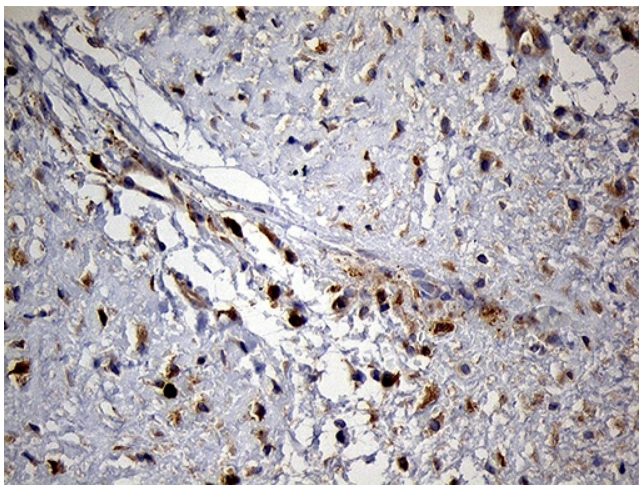
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY PYGM (Cat# [RC212365], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PYGM (Cat# [TA811300])(1:2000). Positive lysates [LY401719] (100ug) and [LC401719] (20ug) can be purchased separately from OriGene.



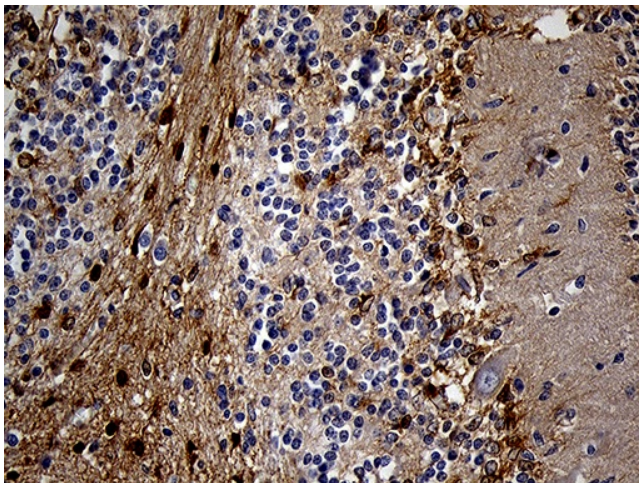
Western blot analysis of extracts (35ug) from 4 different cell lines by using anti-PYGM monoclonal antibody (1:500).



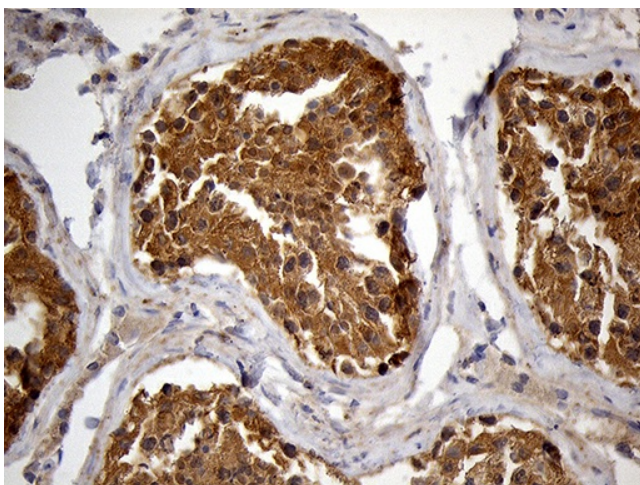
Immunohistochemical staining of paraffin-embedded Human adult heart tissue within the normal limits using anti-PYGM mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA811300]) (1:2000)



Immunohistochemical staining of paraffin-embedded Human muscle tissue within the normal limits using anti-PYGM mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA811300]) (1:2000)



Immunohistochemical staining of paraffin-embedded Human embryonic cerebellum within the normal limits using anti-PYGM mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA811300]) (1:2000)



Immunohistochemical staining of paraffin-embedded Human testicle tissue within the normal limits using anti-PYGM mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA811300]) (1:2000)