



## Rabbit Anti-PGAM2 (N-terminal) antibody

SL23501R

<b>Product Name:</b>	PGAM2 (N-terminal)
<b>Chinese Name:</b>	PGAM2(N端) 抗体
<b>Alias:</b>	BPG dependent PGAM 2; BPG-dependent PGAM 2; GSD10; MGC88743; Muscle specific phosphoglycerate mutase; Muscle-specific phosphoglycerate mutase; OTTHUMP00000207787; PGAM 2; PGAM M; PGAM-M; Pgam2; PGAM2_HUMAN; PGAMM.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Sheep,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	29kDa
<b>Cellular localization:</b>	The nucleuscyttoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human PGAM2:1-100/253
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	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 deficiency, also known as glycogen storage disease X. [provided by RefSeq, Sep 2009]

**Function:**

Interconversion of 3- and 2-phosphoglycerate with 2,3-bisphosphoglycerate as the primer of the reaction. Can also catalyze the reaction of EC 5.4.2.4 (synthase) and EC 3.1.3.13 (phosphatase), but with a reduced activity.

**Tissue Specificity:**

In mammalian tissues there are two types of phosphoglycerate mutase isozymes: type-M in muscles and type-B in other tissues.

**DISEASE:**

Defects in PGAM2 are the cause of glycogen storage disease type 10 (GSD10) [MIM:261670]. A metabolic disorder characterized by myoglobinuria, increased serum creatine kinase levels, decreased phosphoglycerate mutase activity, myalgia, muscle pain, muscle cramps and exercise intolerance.

**Similarity:**

Belongs to the phosphoglycerate mutase family. BPG-dependent PGAM subfamily.

**SWISS:**

P15259

**Gene ID:**

5224

**Database links:**

[Entrez Gene: 515067](#)Cow

[Entrez Gene: 5224](#)Human

[Entrez Gene: 56012](#)Mouse

[Entrez Gene: 100188980](#)Pig

[Entrez Gene: 24959](#)Rat

[Omim: 612931](#)Human

[SwissProt: Q32KV0](#)Cow

[SwissProt: P15259](#)Human

[SwissProt: O70250](#)Mouse

[SwissProt: P16290](#)Rat

[Unigene: 23217](#)Cow

[Unigene: 632642](#)Human

[Unigene: 219627](#)Mouse

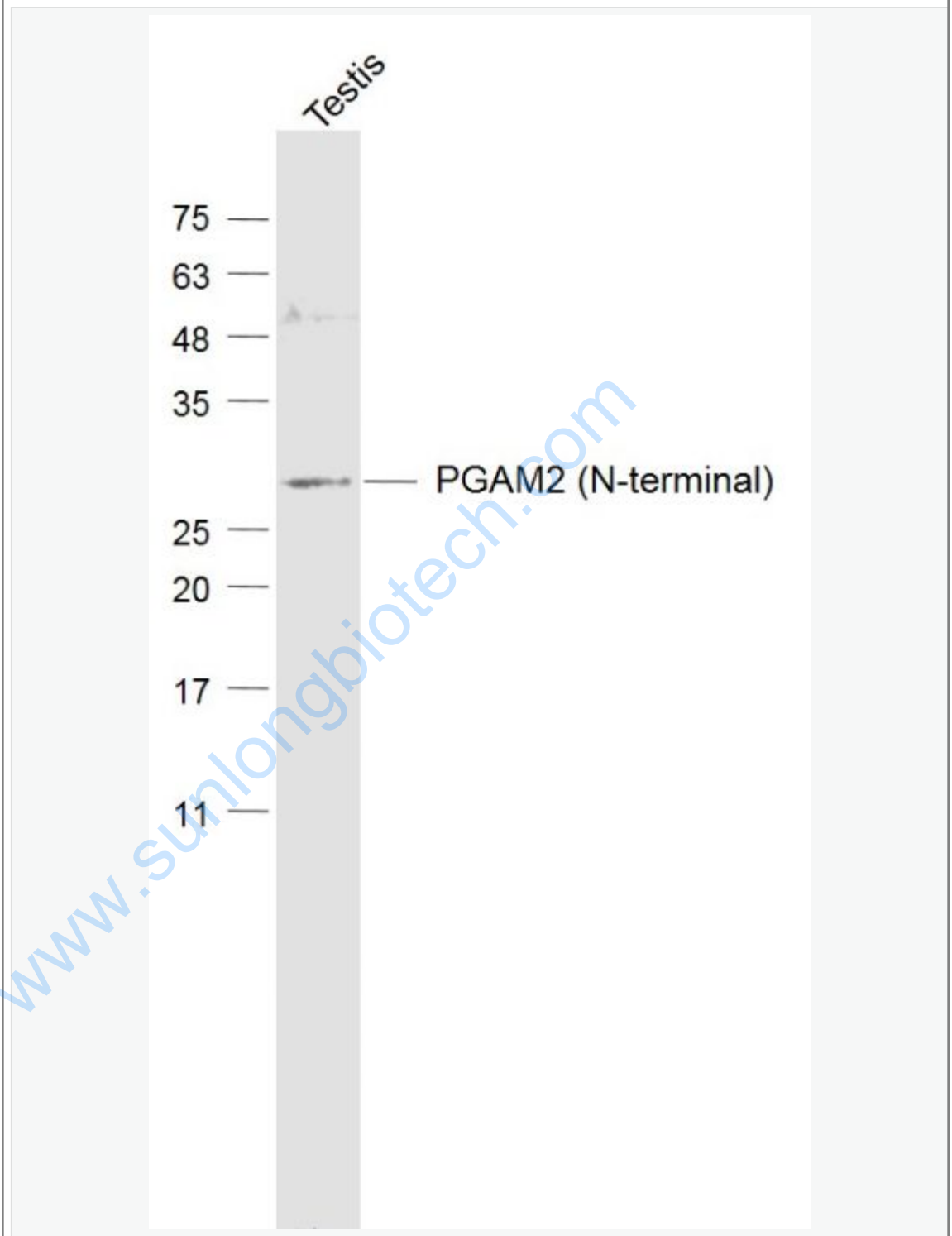
[Unigene: 9738](#)Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

[www.sunlongbiotech.com](http://www.sunlongbiotech.com)

Picture:



Sample:

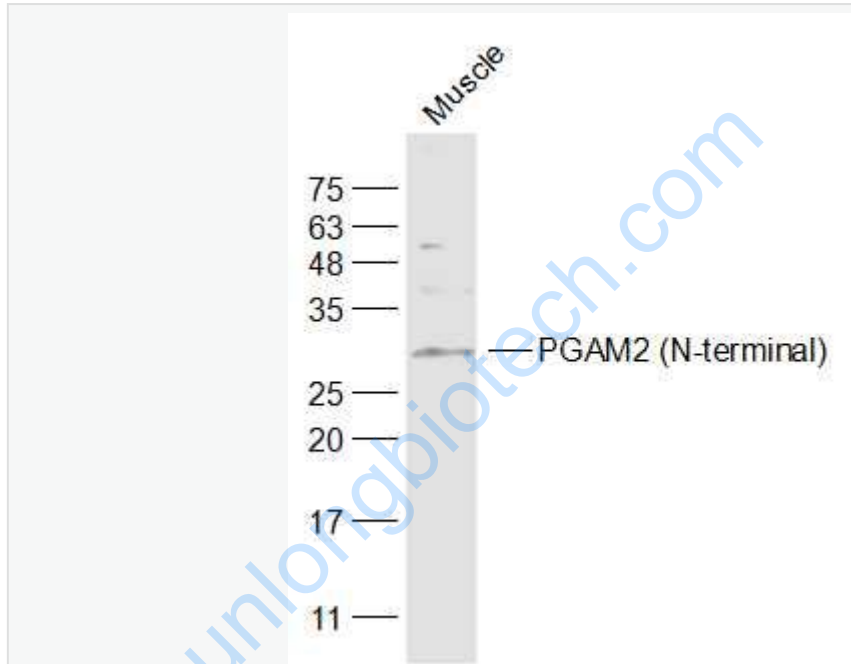
Testis (Mouse) Lysate at 40 ug

Primary: Anti-PGAM2 (SL23501R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 29 kD

Observed band size: 29 kD



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