



# Rabbit Anti-Human PGAM2 Polyclonal Antibody (CABT-L2143)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	Polyclonal Antibody to Phosphoglycerate Mutase 2, Muscle (Knockout Validated)
<b>Specificity</b>	The antibody is a rabbit polyclonal antibody raised against PGAM2. It has been selected for its ability to recognize PGAM2 in immunohistochemical staining and western blotting.
<b>Target</b>	PGAM2
<b>Immunogen</b>	Recombinant fragment corresponding to human PGAM2 (Met1~Glu236)
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human, Mouse
<b>Purification</b>	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB
<b>Format</b>	Liquid
<b>Concentration</b>	Lot specific
<b>Size</b>	200 µg
<b>Buffer</b>	Supplied as solution form in 0.01M PBS with 50% glycerol, pH7.4.
<b>Preservative</b>	0.05% Proclin-300

<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 4°C for frequent use. Aliquot and store at -20°C for 12 months.
<b>Ship</b>	4°C with ice bags

## BACKGROUND

<b>Introduction</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 efficiency, also known as glycogen storage disease X. [provided by RefSeq, Sep 2009]
<b>Keywords</b>	PGAM-M;BPG-dependent PGAM 2;Muscle-specific phosphoglycerate mutase;Phosphoglycerate mutase isozyme M

## GENE INFORMATION

<b>Gene Name</b>	PGAM2 phosphoglycerate mutase 2 (muscle) [ Homo sapiens (human) ]
<b>Official Symbol</b>	PGAM2
<b>Synonyms</b>	PGAM2; phosphoglycerate mutase 2 (muscle); GSD10; PGAMM; PGAM-M; phosphoglycerate mutase 2; BPG-dependent PGAM 2; phosphoglycerate mutase isozyme M; muscle-specific phosphoglycerate mutase;
<b>Entrez Gene ID</b>	<a href="#">5224</a>
<b>Protein Refseq</b>	NP_000281
<b>UniProt ID</b>	<a href="#">P15259</a>
<b>Chromosome Location</b>	7p13-p12
<b>Pathway</b>	Biosynthesis of amino acids; Carbon metabolism; Central carbon metabolism in cancer; Disease; Gluconeogenesis; Gluconeogenesis, oxaloacetate => fructose-6P; Glucose metabolism; Glycine, serine and threonine metabolism;
<b>Function</b>	2,3-bisphosphoglycerate-dependent phosphoglycerate mutase activity; bisphosphoglycerate 2-phosphatase activity; bisphosphoglycerate mutase activity; cofactor binding; phosphoglycerate mutase activity;