

Rabbit Anti-Human PYGL Polyclonal Antibody (CABT-L2013)

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

PRODUCT INFORMATION

Product Overview	Polyclonal Antibody to Glycogen Phosphorylase, Liver (Knockout Validated)
Specificity	The antibody is a rabbit polyclonal antibody raised against PYGL. It has been selected for its ability to recognize PYGL in immunohistochemical staining and western blotting.
Target	PYGL
Immunogen	Recombinant fragment corresponding to human PYGL (Thr341~Gly509)
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Rat
Purification	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
Conjugate	Unconjugated
Applications	WB
Format	Liquid
Concentration	Lot specific
Size	200 µg
Buffer	Supplied as solution form in 0.01M PBS with 50% glycerol, pH7.4.
Preservative	0.05% Proclin-300

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Avoid repeated freeze/thaw cycles. Store at 4°C for frequent use. Aliquot and store at -20°C for 12 months.

Ship

4°C with ice bags

BACKGROUND

Introduction	This gene encodes a homodimeric protein that catalyses the cleavage of alpha-1,4-glucosidic bonds to release glucose-1-phosphate from liver glycogen stores. This protein switches from inactive phosphorylase B to active phosphorylase A by phosphorylation of serine residue 15. Activity of this enzyme is further regulated by multiple allosteric effectors and hormonal controls. Humans have three glycogen phosphorylase genes that encode distinct isozymes that are primarily expressed in liver, brain and muscle, respectively. The liver isozyme serves the glycemic demands of the body in general while the brain and muscle isozymes supply just those tissues. In glycogen storage disease type VI, also known as Hers disease, mutations in liver glycogen phosphorylase inhibit the conversion of glycogen to glucose and results in moderate hypoglycemia, mild ketosis, growth retardation and hepatomegaly. Alternative splicing results in multiple transcript variants encoding different isoforms.[provided by RefSeq, Feb 2011]
Keywords	GPLL;GPBB;Hers Disease;Glycogen Storage Disease Type VI

GENE INFORMATION

Gene Name	PYGL phosphorylase, glycogen, liver [Homo sapiens (human)]
Official Symbol	PYGL
Synonyms	PYGL; phosphorylase, glycogen, liver; GSD6; glycogen phosphorylase, liver form;
Entrez Gene ID	<u>5836</u>
Protein Refseq	NP_001157412
UniProt ID	<u>P06737</u>
Chromosome Location	14q21-q22
Pathway	Disease; Glucose metabolism; Glycogen Metabolism; Glycogen breakdown (glycogenolysis); Glycogen storage diseases; Insulin signaling pathway; Metabolic pathways; Metabolism;
Function	AMP binding; ATP binding; bile acid binding; drug binding; glucose binding; glycogen phosphorylase activity; protein homodimerization activity; purine nucleobase binding; pyridoxal phosphate binding; vitamin binding;

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