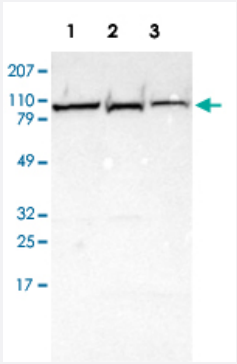
PYGL polyclonal antibody

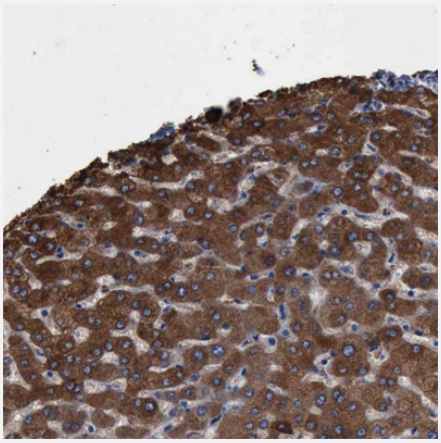
Catalog # PAB29353 Size 100 uL

Applications



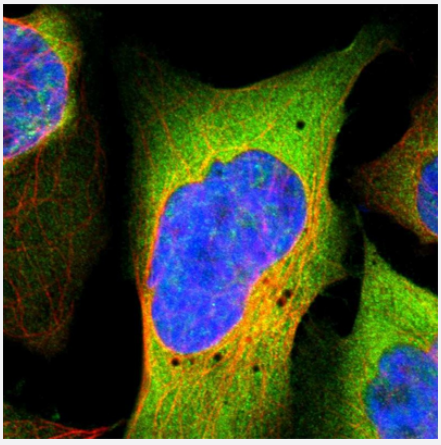
Western Blot (Cell lysate)

Western blot analysis of Lane 1: Human cell line RT-4 Lane 2: Human cell line EFO-21 Lane 3: Human cell line A-431 with PYGL polyclonal antibody (Cat # PAB29353) at 1:250-1:500 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of human liver with PYGL polyclonal antibody (Cat # PAB29353) shows strong cytoplasmic positivity in hepatocytes at 1:500-1:1000 dilution.



Immunofluorescence

Immunofluorescent staining of human cell line U-2 OS with PYGL polyclonal antibody (Cat # PAB29353) at 1-4 ug/mL concentration shows positivity in plasma membrane and cytoplasm.

Specification

Product Description	Rabbit polyclonal antibody raised against recombinant human PYGL.
Immunogen	Recombinant protein corresponding to human PYGL.
Sequence	MRIDDVAALDKKGYEAKEYYEALPELKLVIDQIDNGFFSPKQPDLFKDIINMLFYHDRFKVFADYEA YVKCQDKVSQLYMNPKAWNTMVLKNIAASGKFSSDRTIKEYAQNIWNVEPSD
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Antigen affinity purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (1:500-1:1000) Immunofluorescence (1-4 ug/mL) Western Blot (1:250-1:500) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

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Gene Info — PYGL

Entrez GeneID	5836
Gene Name	PYGL
Gene Alias	GSD6
Gene Description	phosphorylase, glycogen, liver
Omim ID	232700
Gene Ontology	Hyperlink
Gene Summary	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 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, or 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
Other Designations	Hers disease|glycogen phosphorylase, liver|glycogen storage disease type VI|phosphorylase, glycogen; liver (Hers disease, glycogen storage disease type VI)

Pathway

- Insulin signaling pathway
- Starch and sucrose metabolism

Disease

- Diabetes Mellitus
- Hepatomegaly

- Tobacco Use Disorder