

# PYGL mouse monoclonal antibody (hybridoma)

Catalog # H00005836-M

Size Up to 5 Clones

## Specification

|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| <b>Product Description</b>           | Mouse monoclonal antibody raised against a full-length recombinant PYGL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Immunogen</b>                     | PYGL (NP_002854.3, 1 a.a. ~ 847 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Sequence</b>                      | <p>MAKPLTDQEKRRQISIRGIVGVENVAELKKSFNRHLHFTLVKDRNVATTRDYFALAHTVRDHLVG<br/> RWIRTQQHYDKCPKRVYLSLEFYMGRTLQNTMINLGLQNACDEAIYQLGLDIEELEEIEEDAGLG<br/> NGGLGRLAACFLDSMATLGLAAYGYGIRYEYGFNQKIRDGWQVEEADDWLRYPNPWEKSRPEF<br/> MLPVHFYFGKVEHTNTGTKWIDTQVVLALPYDTPVPGYMNNTVNTMRLWSARAPNDFNLRDFNVG<br/> DYIQAVLDRNLAENISRVLYPNDNFEGKELRLKQEYFVVAATLQDIIRRFKASKFGSTRGAGTVFD<br/> AFPDQVAIQLNDTHPALAIPELMRIFVDIEKLPSKAWELTQKTFAYTNHTVLPEALERWPVDLVE<br/> KLLPRHLEIYEINQKHLDRIVALFPKDVDRRLRRMSLIEEEGSKRINMAHLCIVGSHAVNGVAKIHSDIV<br/> KTKVFKDFSELEPDKFQNKTNGITPRRWLLCNPLAELIAEKIGEDYVKDLSQLTKLHSFLGDDV<br/> FLRELAKVKQENKLKFSQFLETEYKVKINPSSMFDVQVKRIHEYKRQLLNCLHVITMYNRIKKDPKK<br/> LFVPRTVIIGGKAAPGYHMAKMIKLITSVADVNNNDPMVGSKLKVIFLENYRVSLAEKVIPATDLSE<br/> QISTAGTEASGTGNMKFMLNGALTIGTMDGANVEMAEAGEENLFIIGMRIDDVAALDKKGYEAK<br/> EYVEALPELKLVIDQIDNGFFSPKQPDLFKDIIINMLFYHDFKVFADYEAYVKCQDKVSQLYMNPKA<br/> WNTMVLKNIAASGKFSSDRTIKEYAQNMWNVESDLKISLSNESNKVNGN</p> |
| <b>Host</b>                          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Reactivity</b>                    | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Interspecies Antigen Sequence</b> | Mouse (95); Rat (95)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Quality Control Testing</b>       | Antibody reactivity and specificity confirmed by ELISA and Western Blot.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Deliverables</b>                  | Up to 5 positive hybridoma clones will be delivered to customer in the cryotube format.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Note</b>                          | Customer should check the viability of the hybridomas within one month from the date of receipt. Fee -for-service of long term hybridoma storage can be performed upon customer's request.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

## Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- ELISA

## Gene Info — PYGL

Entrez GeneID [5836](#)

GeneBank Accession# [NM\\_002863.3](#)

Protein Accession# [NP\\_002854.3](#)

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](#)