

## Glycogen Synthase Antibody | anti-GYS antibody

Glycogen Synthase (Phospho-Ser645) Antibody

|                               |                                        |                                                                  |
|-------------------------------|----------------------------------------|------------------------------------------------------------------|
| CATALOG #<br><b>AAA267401</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> | APPLICATIONS<br><b>ELISA, Immunohistochemistry, Western Blot</b> |
|-------------------------------|----------------------------------------|------------------------------------------------------------------|

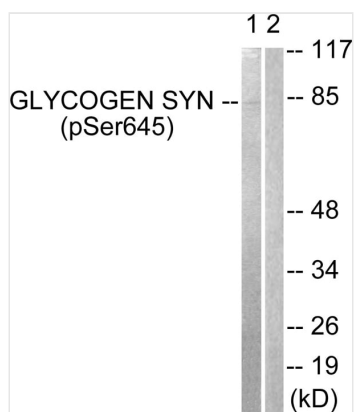
### PRODUCT SYNONYMS

Glycogen Synthase; Glycogen Synthase (Phospho-Ser645) Antibody; EC 2.4.1.11; glycogen synthase muscle; anti-GYS antibody

### PRODUCT SPECIFICATIONS

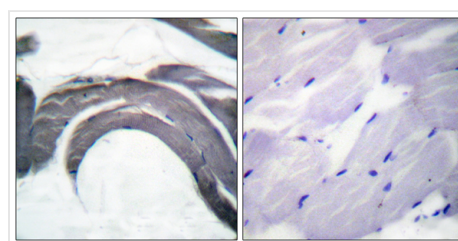
|                                               |                                                                                                                                                                                                                                                     |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                                    | Human, Mouse, Rat                                                                                                                                                                                                                                   |
| Specificity                                   | Glycogen Synthase (Phospho-Ser645) antibody detects endogenous levels of Glycogen Synthase only when phosphorylated at serine 645.                                                                                                                  |
| Purity/Purification                           | Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site. |
| Form/Format                                   | In phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                                                                             |
| Sequence Length                               | 673                                                                                                                                                                                                                                                 |
| Applicable Applications for anti-GYS antibody | ELISA, IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                                                                |
| Immunogen                                     | The antiserum was produced against synthesized phosphopeptide derived from human Glycogen Synthase around the phosphorylation site of serine 645 (P-P-SP-P-S).                                                                                      |
| All Sites                                     | Human: Ser645<br>Mouse: Ser645<br>Rat: Ser644                                                                                                                                                                                                       |
| Preparation and Storage                       | Store at -20 degree C for 1 year                                                                                                                                                                                                                    |

### IMAGES



#### WB (Western Blot)

Western blot analysis of extracts from NIH/3T3 cells treated with PMA (125ng/ml, 30mins), using Glycogen Synthase (Phospho-Ser645) antibody (#A0431).



#### IHC (Immunohistochemistry)

P-peptide-+ Immunohistochemical analysis of paraffin-embedded human skeletal muscle tissue using Glycogen Synthase (Phospho-Ser645) antibody (#A0431).

ADDITIONAL INFORMATION

|            |                                                                                                                                                                                                                                           |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| References | Didier Laurent, Am J Physiol Endocrinol Metab, Apr 2000; 278: E663-E668. Young Soo Ahn, Carcinogenesis, Dec 1992; 13: 2329-2334. Alina Vos, J. Biol. Chem., Apr 2007; 10.1074. Jörg Hans Hacker, Carcinogenesis, Dec 1990; 11: 2199-2204. |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                    |
|----------------------------------|------------------------------------|
| NCBI GI #                        | 239049591                          |
| NCBI GeneID                      | 2997                               |
| NCBI Accession #                 | NP_001155059.1                     |
| NCBI GenBank Nucleotide #        | NM_001161587.1                     |
| UniProt Accession #              | P13807; Q9BTT9                     |
| Molecular Weight                 | 76,483 Da                          |
| NCBI Official Full Name          | glycogen                           |
| NCBI Official Synonym Full Names | glycogen synthase 1                |
| NCBI Official Symbol             | GYS1                               |
| NCBI Official Synonym Symbols    | GSY; GYS                           |
| NCBI Protein Information         | glycogen [starch] synthase, muscle |
| UniProt Protein Name             | Glycogen [starch] synthase, muscle |
| UniProt Gene Name                | GYS1                               |
| UniProt Synonym Gene Names       | GYS                                |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/gys-human-mouse-rat-antibody/glycogen-synthase/267401>