

# Product Datasheet

## Glycogen Synthase [p Ser641] Antibody - BSA Free NB600-611

Unit Size: 0.05 mg

Store at -20C. Avoid freeze-thaw cycles.

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**NB600-611****Glycogen Synthase [p Ser641] Antibody - BSA Free**

<b>Product Information</b>	
<b>Unit Size</b>	0.05 mg
<b>Concentration</b>	Please see the vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at -20C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.01% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

<b>Product Description</b>	
<b>Description</b>	<p>The product was affinity purified from monospecific antiserum by immunoaffinity purification. Antiserum was first purified against the phosphorylated form of the immunizing peptide. The resultant affinity purified antibody was then cross-adsorbed against the non-phosphorylated form of the immunizing peptide</p> <p>Store this antibody at -20C prior to opening. Aliquot contents and freeze at -20C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4C as an undiluted liquid. Dilute only prior to immediate use.</p>
<b>Host</b>	Rabbit
<b>Gene ID</b>	2997
<b>Gene Symbol</b>	GYS1
<b>Species</b>	Human, Mouse
<b>Reactivity Notes</b>	Reactivity with non-phosphorylated human muscle glycogen synthase is less than 1% by ELISA. Cross reactivity with muscle glycogen synthase occurs in mouse tissue. Reactivity with muscle glycogen synthase from other sources has not been determined
<b>Specificity/Sensitivity</b>	Phospho Glycogen Synthase pS641 antibody is directed against human muscle glycogen synthase. The resultant affinity purified antibody was then cross-adsorbed against the non-phosphorylated form of the immunizing peptide. This phospho specific polyclonal antibody is specific for phosphorylated pS641 of human muscle glycogen synthase. Reactivity with non-phosphorylated human muscle glycogen synthase is less than 1% by ELISA. Cross reactivity with muscle glycogen synthase occurs in mouse tissue. Reactivity with muscle glycogen synthase from other sources has not been determined.
<b>Immunogen</b>	Human Muscle Glycogen Synthase phospho peptide corresponding to a S641 region of the human protein conjugated to Keyhole Limpet Hemocyanin (KLH). (Uniprot: P13807)

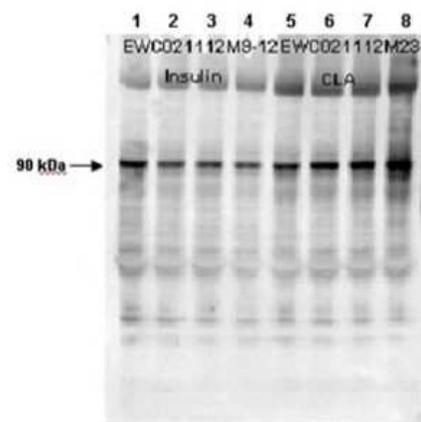
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, ELISA, Immunohistochemistry, Immunohistochemistry-Paraffin, Signal Stimulation
<b>Recommended Dilutions</b>	Western Blot 1:1000-1:10000, ELISA 1:20000-1:60000, Immunohistochemistry 1:1000-1:5000, Immunohistochemistry-Paraffin 1:1000 - 1:5000, Signal Stimulation

**Application Notes**

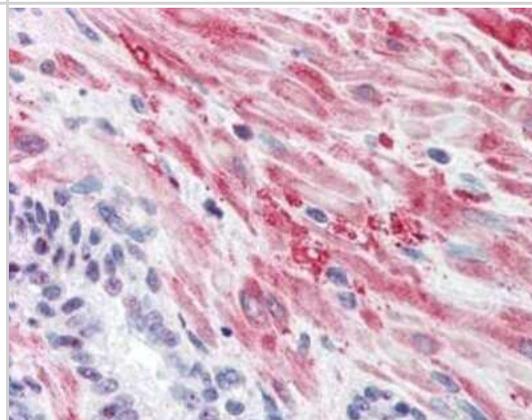
This This product was tested by immunoblotting, immunohistochemistry, and ELISA. By ELISA the antibody was found to be reactive with the phosphorylated form of the immunizing peptide and minimally reactive with the non-phosphorylated form of the immunizing peptide. Immunoblotting will detect human and mouse muscle glycogen synthase. Although not tested, this antibody is likely functional in immunoprecipitation.

**Images**

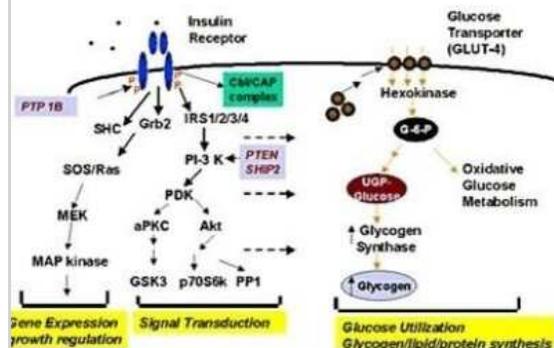
**Western Blot: Glycogen Synthase [p Ser641] Antibody [NB600-611] - Affinity Purified Glycogen Synthase [p Ser641] antibody.** Lane 1: mouse cardiac myocyte lysate mock treated. Lane 2: mouse cardiac myocyte lysate insulin treated at 10nM for 15'. Lane 3: mouse cardiac myocyte lysate insulin treated at 100nM for 15'. Lane 4: mouse cardiac myocyte lysate insulin treated at 1nM for 15'. Lane 5: mouse cardiac myocyte lysate mock treated. Lane 6: mouse cardiac myocyte lysate CLA treated at 4nM for 45'. Lane 7: mouse cardiac myocyte lysate CLA treated at 20nM for 45'. Lane 8: mouse cardiac myocyte lysate CLA treated at 100nM for 45'. Load: 12uL. Primary Antibody: pS641 at 1:1000. Secondary Antibody: HRP conjugated Gt-a-Rabbit IgG at 1:5,000 dilution preceded color development using Amersham's substrate system. Other detection methods will yield similar results.



**Immunohistochemistry: Glycogen Synthase [p Ser641] Antibody [NB600-611] - Immunohistochemistry with Glycogen Synthase [p Ser641] antibody.** Tissue: Human Prostate. Fixation: formalin-fixed, paraffin-embedded tissue. Antigen retrieval: heat-induced. Primary antibody: 5 ug/ml. Staining: antibody as precipitated red signal with a hematoxylin purple nuclear counterstain.



**Signal Stimulation: Glycogen Synthase [p Ser641] Antibody [NB600-611] - Diagram of glycogen synthase as a component of insulin signal transduction pathways.**





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### **Products Related to NB600-611**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
H00002997-P01-10ug	Recombinant Human Glycogen Synthase GST (N-Term) Protein

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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