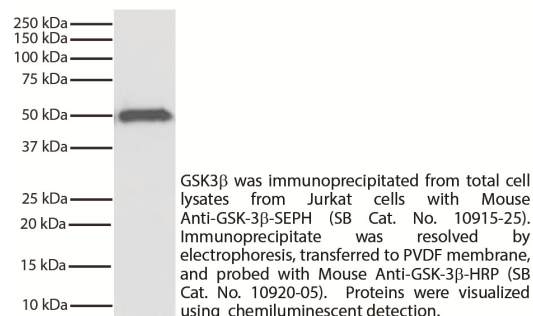




## Mouse Anti-GSK-3 $\beta$

Cat. No.	Format	Size
10920-01	Purified (UNLB)	0.1 mg
10920-05	Horseradish Peroxidase (HRP)	1.0 mL



### Overview

<b>Clone</b>	3A11
<b>Isotype</b>	Mouse (BALB/c) IgG <sub>2a</sub> K
<b>Immunogen</b>	Recombinant N-terminal GSK-3 $\beta$
<b>Specificity</b>	Human GSK-3 $\beta$
<b>Alternate Name(s)</b>	Glycogen synthase kinase-3 beta

### Description

Glycogen synthase kinase-3 (GSK-3) is a protein serine kinase that phosphorylates glycogen synthase and thereby inactivates it. Insulin stimulates the dephosphorylation of glycogen synthase at the sites phosphorylated by GSK-3 and subsequently inhibits GSK-3 acutely leading to the stimulation of glycogen synthesis. GSK-3 signaling is performed by two isoforms, GSK-3 $\alpha$  and GSK-3 $\beta$ . The two isoforms share 97% sequence similarity within their catalytic domains. GSK-3 has also been shown to play a role in protein synthesis, cell adhesion, cell proliferation, cell differentiation, microtubule dynamics, and cell motility.

### Applications

ELISA – Quality tested  
WB – Reported in literature <sup>1</sup>

### Working Dilutions

<b>Immunoblotting</b>	HRP conjugate	1:1,000 – 1:2,000
<b>ELISA</b>	Purified (UNLB) antibody	$\leq 2$ $\mu$ g/mL
	HRP conjugate	1:500 – 1:1,000
<b>Other Applications</b>	Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.	

### Handling and Storage

- The purified (UNLB) antibody is supplied as 0.1 mg of purified immunoglobulin in 0.2 mL of borate buffered saline, pH 8.2. *No preservatives or amine-containing buffer salts added.* Store at 2-8°C.
- The horseradish peroxidase (HRP) conjugate is supplied as 1.0 mL in a stock solution of 50% glycerol/50% PBS, pH 7.4. *No preservative added.* Store at 2-8°C or long-term at -20°C.
- Reagents are stable for the period shown on the label if stored as directed.

### References

- Sun M, Song L, Li Y, Zhou T, Joep RS. Identification of an antiapoptotic protein complex at death receptors. *Cell Death Differ.* 2008;15:1887-1900. (WB)

**For Research Use Only. Not for Diagnostic or Therapeutic Use.**

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**Corporate Offices:** 160 Oxmoor Blvd • Birmingham, AL 35209 • USA **Mailing Address:** P.O. Box 26221 • Birmingham, AL 35260 • USA

**Tel:** 205.945.1774 • U.S. and Canada: 800.722.2255 • **Fax:** 205.945.8768

**Email:** [info@southernbiotech.com](mailto:info@southernbiotech.com) • **Website:** [www.southernbiotech.com](http://www.southernbiotech.com)