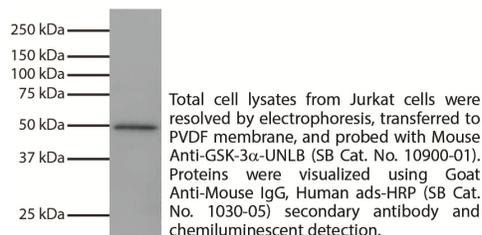




## Mouse Anti-GSK-3 $\alpha$

Cat. No.	Format	Size
10900-01	Purified (UNLB)	0.1 mg
10900-05	Horseradish Peroxidase (HRP)	1.0 mL



### Overview

<b>Clone</b>	SBGSK3 $\alpha$ 1
<b>Isotype</b>	Mouse (BALB/c) IgG <sub>2a</sub> K
<b>Immunogen</b>	Recombinant N-terminal GSK-3 $\alpha$
<b>Specificity</b>	Human/Mouse GSK-3 $\alpha$
<b>Alternate Name(s)</b>	Glycogen synthase kinase-3 alpha

### 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

WB – Quality tested <sup>1</sup>

### Working Dilutions

<b>Immunoblotting</b>	Purified (UNLB) antibody	$\leq 2 \mu\text{g/mL}$
	HRP conjugate	1:1,000 – 1:5,000

**Other Applications** 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, Jope RS. Identification of an antiapoptotic protein complex at death receptors. *Cell Death Differ.* 2008;15:1887-1900. (WB)

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