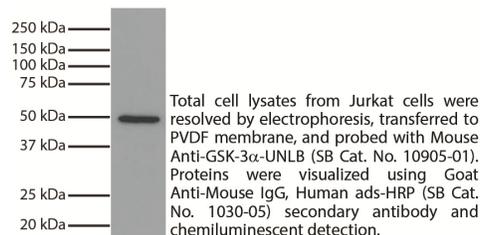




Mouse Anti-GSK-3 α

Cat. No.	Format	Size
10905-01	Purified (UNLB)	0.1 mg
10905-05	Horseradish Peroxidase (HRP)	1.0 mL



Overview

Clone	SBGSK3 α 2
Isotype	Mouse (BALB/c) IgG _{2a} K
Immunogen	Recombinant N-terminal GSK-3 α
Specificity	Human/Mouse GSK-3 α
Alternate Name(s)	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 α and GSK-3 β . 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 ¹

Working Dilutions

Immunoblotting	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

- SouthernBiotech published data

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

TB10905
01-Nov-17

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 • Website: www.southernbiotech.com