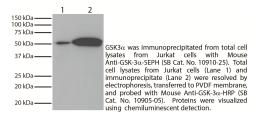




Mouse Anti-GSK-3α

Cat. No.	Format	Size
10910-01	Purified (UNLB)	0.1 mg
10910-05	Horseradish Peroxidase (HRP)	1.0 mL
10910-25	Sepharose® 4B (SEPH)	50 tests



Overview

Clone SBGSK3α4

Isotype Mouse (BALB/c) $IgG_{2a}K$

Immunogen Recombinant N-terminal GSK-3α

Specificity Human/Mouse GSK-3α

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-3α and GSK-3β. 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 ³ IP – Quality tested ^{1,2}

Working Dilutions

Immunoblotting	Purified (UNLB) antibody HRP conjugate	≤ 2 µg/mL 1:2,000 − 1:5,000
Immunoprecipitation	Purified (UNLB) antibody SEPH conjugate	5 μg 40 μL
Other Applications	Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.	

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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.
- The Sepharose[®] 4B (SEPH) conjugate is supplied as 50 tests in 2.0 mL of borate buffered saline, pH 8.2. *No preservatives or amine-containing buffer salts added.* Store at 2-8°C. Shake well before use.
- Reagents are stable for the period shown on the label if stored as directed.

References

- Meares GP, Zmijewska AA, Jope RS. HSP105 interacts with GRP78 and GSK3 and promotes ER stress-induced caspase-3 activation. Cell Signal. 2008;20:347-58. (IP)
- 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.
- 3. SouthernBiotech published data

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