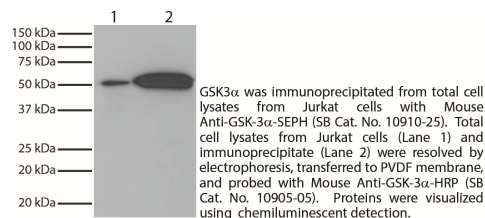




Mouse Anti-GSK-3 α

| 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 | SBGSK3 α 4 |
| 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 ³
 IP – Quality tested ^{1,2}

Working Dilutions

| | | |
|----------------------------|--|-------------------------|
| Immunoblotting | Purified (UNLB) antibody | $\leq 2 \mu\text{g/mL}$ |
| | HRP conjugate | 1:2,000 – 1:5,000 |
| Immunoprecipitation | Purified (UNLB) antibody | 5 μg |
| | SEPH conjugate | 40 μL |
| Other Applications | Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need. | |

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

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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

1. 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)
2. 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. (IP)
3. SouthernBiotech published data

Sepharose[®] is a registered trademark of GE Healthcare.

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