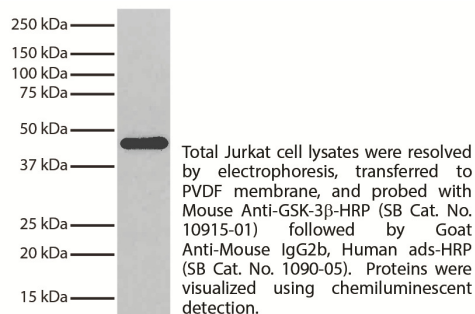




Mouse Anti-GSK-3 β

Cat. No.	Format	Size
10915-01	Purified (UNLB)	0.1 mg
10915-25	Sepharose® 4B (SEPH)	50 tests



Overview

Clone	5D6
Isotype	Mouse (BALB/c) IgG _{2b} K
Immunogen	Recombinant N-terminal GSK-3 β
Specificity	Human GSK-3 β
Alternate Name(s)	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 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
 IP – Quality tested ^{1,2}
 ELISA ³

Working Dilutions

Immunoblotting	Purified (UNLB) antibody	$\leq 3 \mu\text{g/mL}$
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.

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 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 SouthernBiotech unpublished data (ELISA)

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