

Product datasheet

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ARG52322 anti-GSK3 beta phospho (Ser9) antibody

Package: 50 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes GSK3 beta phospho (Ser9)

Tested Reactivity Rat

Predict Reactivity Hu, Ms, Bov, Chk, Dog, NHuPrm, Xenopus laevis, Zfsh

Tested Application WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name GSK3 beta

Species Rat

Immunogen Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser9 conjugated to KLH

Conjugation Un-conjugated

Alternate Names EC 2.7.11.26; EC 2.7.11.1; GSK-3 beta; Glycogen synthase kinase-3 beta; Serine/threonine-protein

kinase GSK3B

Application Instructions

Application table	Application	Dilution
	WB	1:1,000
Application Note	Specific for the $^{\sim}46k$ GSK3 β protein phosphorylated at Ser9 . Also weakly labels the $^{\sim}51k$ GSK3 α band due to the high degree of homology between the 2 subunits. Immunolabeling is blocked by the phosphopeptide used as antigen but not by the corresponding dephosphopeptide.	
	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations	

should be determined by the scientist.

Properties

Form Liquid

Purification Affinity Purified

Buffer 10 mM HEPES (pH 7.5), 150 mM NaCl, 0.1 mg/ml BSA and 50% Glycerol

Stabilizer 0.1 mg/ml BSA, 50% Glycerol

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links GeneID: 84027 Rat

Swiss-port # P18266 Rat

Gene Symbol GSK3B

Gene Full Name glycogen synthase kinase 3 beta

Background Glycogen synthase kinase 3 (GSK3) is a serine/threonine kinase that is involved in the regulation of

many signaling pathways. To date, 2 isoforms have been identified: GSK3 α and GSK3 β . Specifically, GSK3 β has been shown to play a key inhibitory role in both the insulin and Wnt signaling pathways (Papkoff and Aikawa 1998). It has been suggested that Ser9 phosphorylation underlies the inhibition of

GSK3 β by insulin (Sutherland et al., 1993).

Research Area Cancer antibody; Cell Biology and Cellular Response antibody; Developmental Biology antibody;

Metabolism antibody; Neuroscience antibody; Signaling Transduction antibody

Calculated Mw 47 kDa

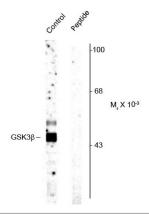
PTM Phosphorylated by AKT1 and ILK1. Upon insulin-mediated signaling, the activated PKB/AKT1 protein

kinase phosphorylates and desactivates GSK3B, resulting in the dephosphorylation and activation of GYS1. Activated by phosphorylation at Tyr-216 (PubMed:25169422). Inactivated by phosphorylation at

Ser-9 (Probable).

Mono-ADP-ribosylation by PARP10 negatively regulates kinase activity.

Images



ARG52322 anti-GSK3 beta phospho (Ser9) antibody WB image

Western blot: Rat cortex lysate showing phospho-specific immunolabeling of the ~46k GSK3p protein phosphorylated at Ser 9 stained with ARG52322 anti-GSK3 beta phospho (Ser9) antibody.