

Datasheet: AHP1233

Description:	RABBIT ANTI GSK3 BETA (pSer9)
Specificity:	GSK3 BETA (pSer9)
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 ml

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Western Blotting	▪			1/1000

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Rat
Species Cross Reactivity	Based on sequence similarity, is expected to react with: Mouse, Dog, Primate, Xenopus, Human, Bovine, Chicken, Zebrafish N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.
Product Form	Purified IgG - liquid
Antiserum Preparation	Antisera to rat GSK3 beta (pSer9) were raised by repeated immunisations of rabbit with highly purified antigen. Purified IgG prepared by affinity chromatography.
Buffer Solution	10mM Hepes pH7.5

Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 50% Glycerol 0.01% Bovine Serum Albumin
Immunogen	Phosphopeptide corresponding to amino acid sequence surrounding phosphorylated serine 9 of rat GSK3 beta.
External Database Links	UniProt: P18266 Related reagents Entrez Gene: 84027 Gsk3b Related reagents
RRID	AB_877475
Specificity	<p>Rabbit anti Rat GSK3 beta (pSer9) antibody recognizes GSK3 beta, also known as glycogen synthase kinase-3 beta (GSK-3 beta), factor A (FA) and serine/threonine-protein kinase GSK3B, when phosphorylated at serine 9. GSK3 is a ~46 kDa member of the serine/threonine protein kinase family. Two isoforms of GSK3 exist, alpha and beta. GSK3 beta is expressed in the testis, thymus, prostate, and ovary as well as being expressed at low levels in lung, brain and kidney tissue.</p> <p>GSK3 beta is involved in many signalling pathways including energy metabolism, body pattern formation and microtubule growth and stability (which aids axon growth). GSK3 beta is also thought to be involved in oncogenesis and the hormonal control of several regulatory proteins including glycogen synthase.</p> <p>Phosphorylation of serine-9 inhibits GSK3 beta function.</p>
Western Blotting	AHP1233 detects a band of approximately 46kDa in rat cortex cell lysates.
Further Reading	<ol style="list-style-type: none"> 1. Stambolic, V. <i>et al.</i> (1994) Mitogen inactivation of glycogen synthase kinase-3 beta in intact cells via serine 9 phosphorylation. Biochem, J. 303:701-4. 2. Papkoff, J. <i>et al.</i> (1998) WNT-1 and HGF regulate GSK3 beta activity and beta-catenin signaling in mammary epithelial cells. Biochem. Biophys. Res. Commun. 247:851-8. 3. Green, J.B. (2004) Lkb1 and GSK3-beta: kinases at the center and poles of the action. Cell Cycle. 3 (1): 12-4. 4. Garrido, J. <i>et al.</i> (2007) GSK3 alpha and GSK3 beta are necessary for axon formation. FEBS Lett. 581:1579-86.
Storage	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>

Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10088 available at: https://www.bio-rad-antibodies.com/SDS/AHP1233 10088
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
 Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
 Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)
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