

## Datasheet: AHP1233

<b>Description:</b>	RABBIT ANTI GSK3 BETA (pSer9)
<b>Specificity:</b>	GSK3 BETA (pSer9)
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			■	
Immunohistology - Frozen			■	
Immunohistology - Paraffin			■	
ELISA			■	
Western Blotting (1)	■			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.

**(1) For the detection of phosphoproteins, serine phosphatase inhibitors such as 10mM Sodium Fluoride should be added to the sample buffer. Milk or other casein-based blocking solutions are not recommended as casein is a phosphoprotein and its use can result in high background.**

<b>Target Species</b>	Rat
<b>Species Cross Reactivity</b>	Based on sequence similarity, is expected to react with: Mouse, Dog, Primate, Xenopus, Human, Bovine, Chicken, Zebrafish <b>N.B.</b> Antibody reactivity and working conditions may vary between species.
<b>Product Form</b>	Purified IgG - liquid
<b>Antiserum Preparation</b>	Antisera to rat GSK3 beta (pSer9) were raised by repeated immunisations of rabbit with highly purified antigen. Purified IgG prepared by affinity chromatography.
<b>Buffer Solution</b>	10mM Hepes pH7.5
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> ) 50% Glycerol 0.01% Bovine Serum Albumin

**Immunogen** Phosphopeptide corresponding to amino acid sequence surrounding phosphorylated serine 9 of rat GSK3 beta.

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**External Database Links**

**UniProt:**  
[P18266](#) [Related reagents](#)

**Entrez Gene:**  
[84027](#) Gsk3b [Related reagents](#)

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**Specificity**

**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.

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.

Phosphorylation of serine-9 inhibits GSK3 beta function.

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**Western Blotting**

AHP1233 detects a band of approximately 46kDa in rat cortex cell lysates.

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**References**

1. Green, J. (2004) Lkb1 and GSK3-beta: kinases at the center and poles of the action [Cell Cycle 3:12-14.](#)
  2. Papkoff, J. *et al.* (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. Stambolic, V. *et al.* (1994) Mitogen inactivation of glycogen synthase kinase-3 beta in intact cells via serine 9 phosphorylation. [Biochem. J. 303:701-4.](#)
  4. Garrido, J. *et al.* (2007) GSK3 alpha and GSK3 beta are necessary for axon formation. [FEBS Lett. 581:1579-86.](#)
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**Storage**

Store at +4°C or at -20°C if preferred.  
Storage in frost-free freezers is not recommended.  
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Shelf Life**

12 months from date of despatch.

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**Health And Safety Information**

Material Safety Datasheet documentation #10088 available at:  
10088: <https://www.bio-rad-antibodies.com/uploads/MSDS/10088.pdf>

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)  
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)  
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)  
Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)  
Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),  
[DyLight®680](#), [DyLight®800](#)

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