



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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry(1)			■	
Immunohistology - Frozen			■	
Immunohistology - Paraffin			■	
Immunohistology - Resin			■	
ELISA			■	
Western Blotting(2)	■			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.**

(2) **Special conditions apply. See ***

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.

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

0.09% Sodium Azide (NaN₃)

Stabilisers

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](#) GSK3B_RAT [Related reagents](#)

Entrez Gene:

[84027](#) Gsk3b [Related reagents](#)

Specificity	<p>AHP1233 recognises glycogen synthase 3 (GSK3) beta phosphorylated at serine 9. This 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.
References	<ol style="list-style-type: none"> Green, J. (2004) Lkb1 and GSK3-beta: kinases at the center and poles of the action Cell Cycle 3:12-14. 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. 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. Garrido, J. <i>et al.</i> (2007) GSK3 alpha and GSK3 beta are necessary for axon formation. FEBS Lett. 581:1579-86.
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody.</p> <p>Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Shelf Life	12 months from date of despatch.
Health And Safety Information	<p>Material Safety Datasheet Documentation #10088 available at: http://www.abdserotec.com/uploads/MSDS/10088.pdf</p>

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR36...)	DyLight@488 , DyLight@800
Goat Anti Rabbit IgG (H/L) (STAR124...)	HRP
Sheep Anti Rabbit IgG (STAR54...)	HRP
Sheep Anti Rabbit IgG (STAR35...)	RPE
Goat Anti Rabbit IgG (Fc) (STAR121...)	Biotin , FITC , HRP
Sheep Anti Rabbit IgG (2AB02...)	Biotin
Sheep Anti Rabbit IgG (STAR34...)	FITC

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