

Datasheet: VMA00754

**BATCH NUMBER 180704**

<b>Description:</b>	MOUSE ANTI GSK3 ALPHA (pSer21)
<b>Specificity:</b>	GSK3 ALPHA (pSer21)
<b>Other names:</b>	GSK3A
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	9B8
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	100 µl

## 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
Western Blotting	▪			1/1000

**The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range.** Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - Liquid
<b>Preparation</b>	Mouse monoclonal antibody purified by thiophilic adsorption and size exclusion chromatography from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative</b>	0.09% Sodium Azide
<b>Stabilisers</b>	PEG & Sucrose
<b>Approx. Protein Concentrations</b>	IgG concentration 0.5 mg/ml

<b>Immunogen</b>	Phosphopeptide conjugated to KLH
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P49840</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">2931</a>    GSK3A    <a href="#">Related reagents</a></p>
<b>Specificity</b>	<b>Mouse anti GSK3 alpha antibody, clone 9B8</b> recognizes glycogen synthase kinase-3 alpha, also known as serine/threonine-protein kinase GSK3A, when phosphorylated at serine 21. GSK3 controls several physiological processes, such as modulation of transcription factor AP-1 ( <a href="#">Nikolakaki et al. 1993</a> ) and CREB ( <a href="#">Fiol et al. 1994</a> ) as well as glycogen metabolism ( <a href="#">Welsh and Proud 1993</a> ). The kinase has also been reported to regulate cyclin D1 proteolysis and localization ( <a href="#">Diehl et al. 1998</a> ). Phosphorylation of GSK3 at serine 21 leads to inactivation of the kinase ( <a href="#">Frame et al. 2001</a> ) and is associated with poor survival chances in Acute Myeloid Leukemia (AML) patients ( <a href="#">Ruvolo et al. 2015</a> ).
<b>Western Blotting</b>	Mouse anti GSK3 alpha (pSer21) detects a band of approximately 51 kDa in pervanadate-treated HepG2 (treated lysate) cell lysates
<b>Storage</b>	Store undiluted at -20°C, avoiding repeated freeze thaw cycles
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	PrecisionAb is a trademark of Bio-Rad Laboratories.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #20403 available at: <a href="https://www.bio-rad-antibodies.com/SDS/VMA00754">https://www.bio-rad-antibodies.com/SDS/VMA00754</a> Antibody (20403)
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [HRP](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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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