

## Datasheet: VMA00754

<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 Stabilisers</b>	0.09% Sodium Azide PEG & Sucrose
<b>Approx. Protein Concentrations</b>	IgG concentration 0.5 mg/ml

**Immunogen** Phosphopeptide conjugated to KLH

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**External Database**

**Links**

**UniProt:**

[P49840](#)   [Related reagents](#)

**Entrez Gene:**

[2931](#)   GSK3A   [Related reagents](#)

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**Specificity**

**Mouse anti GSK3 alpha antibody, clone 9B8** 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 ([Nikolakaki et al. 1993](#)) and CREB ([Fiol et al. 1994](#)) as well as glycogen metabolism ([Welsh and Proud 1993](#)). The kinase has also been reported to regulate cyclin D1 proteolysis and localization ([Diehl et al. 1998](#)). Phosphorylation of GSK3 at serine 21 leads to inactivation of the kinase ([Frame et al. 2001](#)) and is associated with poor survival chances in Acute Myeloid Leukemia (AML) patients ([Ruvolo et al. 2015](#)).

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**Western Blotting**

Mouse anti GSK3 alpha (pSer21) detects a band of approximately 51 kDa in pervanadate-treated HepG2 (treated lysate) cell lysates

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**Storage**

Store undiluted at -20°C, avoiding repeated freeze thaw cycles

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**Guarantee**

12 months from date of despatch

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**Acknowledgements**

PrecisionAb is a trademark of Bio-Rad Laboratories.

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**Health And Safety Information**

Material Safety Datasheet documentation #20403 available at: Antibody (20403): <https://www.bio-rad-antibodies.com/uploads/MSDS/20403.pdf>

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

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

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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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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