

## Datasheet: VMA00342KT

<b>Description:</b>	GSK3 ALPHA/BETA ANTIBODY WITH CONTROL LYSATE
<b>Specificity:</b>	GSK3 ALPHA/BETA
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb™ Monoclonal
<b>Isotype:</b>	IgG2b
<b>Quantity:</b>	2 Westerns

## 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

**PrecisionAb antibodies have been extensively [validated for the western blot application](#).** The antibody has been validated at the suggested dilution. 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 dependant on sample type.

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	Reacts with: Mouse, Rat <b>N.B.</b> Antibody reactivity and working conditions may vary between species.
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	20µl Mouse monoclonal antibody prepared by affinity chromatography on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Immunogen</b>	Synthetic peptide corresponding to amino acids 205-221 of human GSK3 beta
<b>External Database Links</b>	<p><b>UniProt:</b></p> <p><a href="#">P49840</a>   <a href="#">Related reagents</a></p> <p><a href="#">P49841</a>   <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b></p> <p><a href="#">2931</a>   GSK3A   <a href="#">Related reagents</a></p>

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<b>Specificity</b>	<p><b>Mouse anti Human GSK3 alpha/beta antibody</b> recognizes glycogen synthase kinase-3 (GSK3) alpha also known as glycogen synthase kinase-3 alpha, GSK-3 alpha and serine/threonine-protein kinase GSK3A and the glycogen synthase kinase-3 (GSK3) beta, also known as GSK-3 beta, GSK3beta isoform, glycogen synthase kinase-3 beta and serine/threonine-protein kinase GSK3B.</p> <p>The proteins encoded by GSK3A and GSK3B genes are a serine-threonine kinases, belonging to the glycogen synthase kinase subfamily. GSK3A is involved in Alzheimer and diabetes and GSK3B have been implicated in modifying risk of Parkinson disease, and studies in mice show that overexpression of GSK3B may be relevant to the pathogenesis of Alzheimer disease (provided by RefSeq, Sep 2009).</p> <p>Mouse anti Human GSK3 alpha/beta antibody detects bands of 51 and 47 kDa respectively. The antibody has been extensively validated for western blotting using whole cell lysates.</p>
<b>Western Blotting</b>	Anti GSK3 alpha/beta detect bands of approximately 47kDa and 51 kDa in HEK293 cell lysates
<b>Instructions For Use</b>	Please refer to the <a href="#">PrecisionAb western blotting protocol</a> . For additional information on secondary antibody dilution and exposure time see product web page.
<b>Lysate Composition</b>	400µg HEK293 lysate lyophilized in RIPA buffer.
<b>Lysate Reconstitution</b>	<p>- If using DDT reconstitute the lyophilized lysate with 190µl DI H<sub>2</sub>O, add 200µl 2x Laemmli Sample Buffer and 10µl 2M DTT.</p> <p>- If using BME reconstitute the lyophilized lysate with 180µl DI H<sub>2</sub>O, add 200µl 2x Laemmli Sample Buffer and 20µl BME.</p> <p>Heat at 95°C for 5 minutes. For 10 well mini gels load 25µl. For other gel and comb formats please refer to the PrecisionAb western blotting protocol.</p>
<b>Storage</b>	<p>Antibody: Store undiluted at -20°C, avoiding repeated freeze thaw cycles.</p> <p>Lysate: Store lyophilized lysate at -20°C. After reconstitution aliquot and store at -20°C for up to 3 months or at -80°C for longer term storage.</p>
<b>Shelf Life</b>	As supplied, 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 #10040 #10561 available at: Antibody (10040): <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a> Lysate Material (10561): <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf</a>
<b>Regulatory</b>	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 IgG2b NEGATIVE CONTROL \(MCA691\)](#)

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