

## Datasheet: 4737-1010

<b>Description:</b>	RABBIT ANTI MOUSE G PROTEIN ALPHA 0
<b>Specificity:</b>	G PROTEIN ALPHA 0
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	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
ELISA	▪			1/500 - 1/1000
Western Blotting (1)	▪			

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 the appropriate negative/positive controls.

**(1) This antibody detects band at 39 kDa when used under reducing conditions against rat brain.**

<b>Target Species</b>	Mouse
<b>Species Cross Reactivity</b>	Reacts with: Drosophila <b>N.B.</b> Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )

<b>Approx. Protein Concentrations</b>	IgG concentration 5.0 mg/ml
<b>Immunogen</b>	Synthetic peptide corresponding to the amino acids 345 - 354 (C-ANNLRGCGLY) of the native isoform 1 molecule conjugated to Keyhole Limpet Haemocyanin.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P18872</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">14681</a>    Gnao1    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	Gna0, Gnao
<b>RRID</b>	AB_618662
<b>Specificity</b>	<p><b>Rabbit anti Mouse G Protein alpha 0 antibody</b> recognizes the alpha subunit of murine Guanine nucleotide-binding protein G(o). Guanine nucleotide-binding protein G(o) is a 354 amino acid membrane associated protein of ~40 kDa forming a heterotrimeric protein complex with <math>\beta</math> and <math>\gamma</math> subunits. Two isoforms of the <math>\alpha</math> subunit are generated by alternative splicing with a single amino acid substitution in the immunogen sequence (a lysine for an asparagine at position 346), it is not known whether this substitution affects the binding to isoform 2.</p> <p>Rabbit anti Mouse G Protein alpha 0 antibody has been used successfully for the detection of G(o) in <i>Drosophila</i> by western blotting (<a href="#">Guo et al. 2011</a>).</p>
<b>References</b>	1. Guo, F. <i>et al.</i> (2011) Go signaling in mushroom bodies regulates sleep in <i>Drosophila</i> . <a href="#">Sleep. 34: 273-81.</a>
<b>Storage</b>	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/4737-1010">https://www.bio-rad-antibodies.com/SDS/4737-1010</a> 10040
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)  
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)  
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [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://bio-rad-antibodies.com/datasheets)

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