

## 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.**

### Target Species

Mouse

### Species Cross Reactivity

Reacts with: Drosophila

**N.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.

### Product Form

Purified IgG - liquid

### Preparation

Purified IgG prepared by affinity chromatography on Protein G

### Buffer Solution

Phosphate buffered saline

### Preservative Stabilisers

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>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.</p> <p>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>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: 10040: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)    [FITC](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®680](#), [DyLight®800](#)

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'M363147:200528'

**Printed on 12 Feb 2021**

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