

Datasheet: 1720-9007

**BATCH NUMBER 161057**

<b>Description:</b>	GOAT ANTI RAT CALCITONIN GENE-RELATED PEPTIDE
<b>Specificity:</b>	CGRP
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	0.1 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
Immunohistology - Frozen	▪			
Immunohistology - Paraffin	▪			
Immunohistology - Resin		▪		
ELISA	▪			1/500 - 1/2500
Western Blotting			▪	
Immunofluorescence	▪			

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.

### Target Species

Rat

### Species Cross Reactivity

Reacts with: Mouse, Guinea Pig, Emu

**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 Ig - liquid

### Preparation

Purified Ig prepared by affinity chromatography on Protein G

### Buffer Solution

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 rat Tyr-CGRP (23-37) conjugated to gamma globulin.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P01256</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">24241</a> Calca    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	Calc
<b>RRID</b>	AB_2290729
<b>Specificity</b>	<b>Goat anti Rat Calcitonin Gene-Related Peptide antibody</b> recognizes Calcitonin gene-related peptide, also known as CGRP, a neuropeptide that acts as a vasodilator and plays a role in in the pathophysiology of migraine ( <a href="#">Recober &amp; Russo 2009</a> ). Goat anti Rat Calcitonin Gene-Related Peptide antibody reacts with both the whole molecule (amino acids 1-37) and the C-terminal fragment (23-37).
<b>References</b>	<ol style="list-style-type: none"> <li>Collins, J.J. <i>et al.</i> (2000) Distribution and origin of secretoneurin-immunoreactive nerves in the female rat uterus. <a href="#">Neuroscience. 95 (1): 255-64.</a></li> <li>Chetty, R. <i>et al.</i> (2006) Pancreatic endocrine tumour with ductules: further observations of an unusual histological subtype. <a href="#">Pathology. 38 (1): 5-9.</a></li> <li>Weir, K.A. and Lunam, C.A. (2006) Immunohistochemical study of cutaneous nerves in the emu. <a href="#">Cell Tissue Res. 326: 697-705.</a></li> <li>Brock, J.A. <i>et al.</i> (2007) Postnatal androgen deprivation dissociates the development of smooth muscle innervation from functional neurotransmission in mouse vas deferens. <a href="#">J Physiol. 581: 665-78.</a></li> <li>Marchant, N.J. <i>et al.</i> (2007) Coexpression of prodynorphin and corticotrophin-releasing hormone in the rat central amygdala: evidence of two distinct endogenous opioid systems in the lateral division. <a href="#">J Comp Neurol. 504: 702-15.</a></li> <li>Pitzer, C. <i>et al.</i> (2008) Granulocyte-colony stimulating factor improves outcome in a mouse model of amyotrophic lateral sclerosis. <a href="#">Brain. 131: 3335-47.</a></li> <li>Ikeda, E. <i>et al.</i> (2009) Fully functional bioengineered tooth replacement as an organ replacement therapy. <a href="#">Proc Natl Acad Sci U S A. 106: 13475-80.</a></li> <li>Iliff, J.J. <i>et al.</i> (2009) Epoxyeicosanoids as mediators of neurogenic vasodilation in cerebral vessels. <a href="#">Am J Physiol Heart Circ Physiol. 296: H1352-63.</a></li> <li>Yu, W.M. <i>et al.</i> (2009) Disruption of laminin in the peripheral nervous system impedes nonmyelinating Schwann cell development and impairs nociceptive sensory function. <a href="#">Glia. 57: 850-9.</a></li> <li>Golden, J.P. <i>et al.</i> (2010) RET signaling is required for survival and normal function of nonpeptidergic nociceptors. <a href="#">J Neurosci. 30: 3983-94.</a></li> <li>Iliff, J.J. <i>et al.</i> (2010) Epoxyeicosatrienoic acids are endogenous regulators of</li> </ol>

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**Storage** 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.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/1720-9007>  
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**Regulatory** For research purposes only

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Goat IgG (Fc) (STAR122...) [FITC](#), [HRP](#)

## Recommended Useful Reagents

### ANTIGEN RETRIEVAL BUFFER, pH8.0 (BUF025A)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

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