

## Datasheet: AHP635

**BATCH NUMBER 158405**

<b>Description:</b>	RABBIT ANTI RAT CALCITONIN RECEPTOR
<b>Specificity:</b>	CALCITONIN RECEPTOR
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	0.1 mg

## 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
Flow Cytometry			▪	
Immunohistology - Frozen	▪			1/500
Immunohistology - Paraffin (1)	▪			1/1000 - 1/5000
ELISA	▪			1/100,000
Immunoprecipitation			▪	
Western Blotting	▪			Reducing conditions
Immunofluorescence	▪			

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

**(1)The use of 4% paraformaldehyde fixation, rather than formalin fixation is recommended.**

**A sensitive detection system is also recommended. e.g. A catalysed signal amplification system.**

<b>Target Species</b>	Rat
<b>Species Cross Reactivity</b>	<p>Reacts with: Mouse, Human, Fish, Atlantic Stingray</p> <p><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.</p>

<b>Product Form</b>	Purified IgG - liquid
<b>Antiserum Preparation</b>	Antisera to calcitonin receptor were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography on Protein A.
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Synthetic peptide derived from a C-terminal sequence of rat calcitonin receptor.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P32214</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">116506</a>    Calcrcr    <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_2068967
<b>Specificity</b>	<p><b>Rabbit anti Rat Calcitonin Receptor antibody</b> recognizes the calcitonin receptor in human, mouse and rat. The calcitonin receptor is a seven transmembrane domain cell surface protein which is coupled to G protein messenger systems. Rabbit anti Rat Calcitonin Receptor antibody recognizes an epitope within the cytoplasmic domain that is common to both C1a and C1b rat isoforms.</p> <p>Calcitonin receptor is expressed in kidney, central and peripheral nervous systems and in osteoclasts. It is also expressed in a number of tissues during the development of the embryo and may be important in foetal morphogenesis.</p>
<b>Histology Positive Control Tissue</b>	Kidney, cultured osteoclasts
<b>References</b>	<ol style="list-style-type: none"> <li>1. Wookey, P.J. <i>et al.</i> (2008) Calcitonin receptor immunoreactivity associated with specific cell types in diseased radial and internal mammary arteries. <a href="#">Histopathology. 52 (5): 605-12.</a></li> <li>2. Tolcos, M. <i>et al.</i> (2003) Ontogeny of calcitonin receptor mRNA and protein in the developing central nervous system of the rat. <a href="#">J Comp Neurol. 456 (1): 29-38.</a></li> <li>3. Tikellis, C. <i>et al.</i> (2003) Calcitonin receptor isoforms expressed in the developing rat kidney. <a href="#">Kidney Int. 63: 416-26.</a></li> <li>4. Gnocchi, V.F. <i>et al.</i> (2009) Further characterisation of the molecular signature of quiescent and activated mouse muscle satellite cells. <a href="#">PLoS One. 4(4):e5205.</a></li> <li>5. Becskei, C. <i>et al.</i> (2004) Immunohistochemical mapping of calcitonin receptors in the adult rat brain. <a href="#">Brain Res. 1030: 221-33.</a></li> </ol>

6. Gooi, J.H. *et al.* (2010) Calcitonin impairs the anabolic effect of PTH in young rats and stimulates expression of sclerostin by osteocytes. [Bone. 46: 1486-97.](#)
7. Gelsleichter, J.J. (2006) MCAA: Development of laboratory skills in molecular biology to examine patterns of calcitonin and calcitonin receptor gene expression in cartilaginous fishes. [Mote technical report 1392.](#)
8. Wookey, P.J. *et al.* (2012) Transient expression of the calcitonin receptor by enteric neurons of the embryonic and early post-natal mouse. [Cell Tissue Res. 347: 311-7.](#)
9. Mourikis, P. *et al.* (2012) Cell-autonomous Notch activity maintains the temporal specification potential of skeletal muscle stem cells. [Development. 139: 4536-48.](#)
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12. Almeida, C.F. *et al.* (2016) Muscle Satellite Cells: Exploring the Basic Biology to Rule Them. [Stem Cells Int. 2016: 1078686.](#)
13. Yamaguchi, M. *et al.* (2015) Calcitonin Receptor Signaling Inhibits Muscle Stem Cells from Escaping the Quiescent State and the Niche. [Cell Rep. 13 \(2\): 302-14.](#)
14. Wookey, P.J. (2009) A Review of Calcitonin Receptor Expression in Embryonic, Foetal and Adult Tissues, with an Hypothesis on the Connection Between Expression During Foetal Development and Disease [The Open Zoology Journal 2: 53-61.](#)

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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: 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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**Regulatory** For research purposes only

## Related Products

### Recommended Secondary Antibodies

- Sheep Anti Rabbit IgG (STAR34...) [FITC](#)  
 Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)  
 Sheep Anti Rabbit IgG (STAR35...) [RPE](#)  
 Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

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