

# Datasheet: AHP635 BATCH NUMBER 162973

Description:	RABBIT ANTI RAT CALCITONIN RECEPTOR
Specificity:	CALCITONIN RECEPTOR
Format:	Purified
<b>Product Type:</b>	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	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 <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	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.

Target Species	Rat
Species Cross	Reacts with: Mouse, Human, Fish, Atlantic Stingray
Reactivity	N.B. Antibody reactivity and working conditions may vary between

**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			
Antiserum Preparation	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.			
Buffer Solution	Phosphate buffered saline			
Preservative Stabilisers	<0.1% Sodium Azide (NaN <sub>3</sub> )			
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml			
Immunogen	Synthetic peptide derived from a C-terminal sequence of rat calcitonin receptor.			
External Database Links	UniProt: P32214 Related reagents  Entrez Gene: 116506 Calcr Related reagents			
RRID	AB_2068967			
Specificity	Rabbit anti Rat Calcitonin Receptor antibody 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.  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.			
Histology Positive Control Tissue	Kidney, cultured osteoclasts			
References	<ol> <li>Wookey, P.J. <i>et al.</i> (2008) Calcitonin receptor immunoreactivity associated with specific cell types in diseased radial and internal mammary arteries. <u>Histopathology. 52 (5): 605-12.</u></li> <li>Tolcos, M. <i>et al.</i> (2003) Ontogeny of calcitonin receptor mRNA and protein in the developing central nervous system of the rat. <u>J Comp Neurol. 456 (1): 29-38.</u></li> <li>Tikellis, C. <i>et al.</i> (2003) Calcitonin receptor isoforms expressed in the developing rat kidney. <u>Kidney Int. 63: 416-26.</u></li> <li>Gnocchi, V.F. <i>et al.</i> (2009) Further characterisation of the molecular signature of quiescent and activated mouse muscle satellite cells. <u>PLoS One. 4(4):e5205.</u></li> <li>Becskei, C. <i>et al.</i> (2004) Immunohistochemical mapping of calcitonin receptors in the adult rat brain. <u>Brain Res. 1030: 221-33.</u></li> </ol>			

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- 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.
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- 10. Park, J.K. et al. (2012) Increased generation of TRAP expressing multinucleated giant cells in patients with granulomatosis with polyangiitis. PLoS One. 7: e42659.
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- 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.

#### 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.

Guarantee	12 months from date of despatch
Health And Safety Information	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>
Regulatory	For research purposes only

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# Related Products

#### **Recommended Secondary Antibodies**

Sheep Anti Rabbit IgG (STAR34...) **FITC** Sheep Anti Rabbit IgG (STAR35...) **RPE** 

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

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

Worldwide

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

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