

Datasheet: AHP635

| | |
|----------------------|-------------------------------------|
| Description: | RABBIT ANTI RAT CALCITONIN RECEPTOR |
| Specificity: | CALCITONIN RECEPTOR |
| Format: | Purified |
| Product Type: | 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 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.

| | |
|---------------------------------|---|
| Target Species | Rat |
| Species Cross Reactivity | <p>Reacts with: Mouse, Human, Fish, Atlantic Stingray</p> <p>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.</p> |
| 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 ₃) |
| 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 | <p>UniProt: P32214 Related reagents</p> <p>Entrez Gene: 116506 Calcrc Related reagents</p> |
| RRID | AB_2068967 |
| Specificity | <p>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.</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> |
| Histology Positive Control Tissue | Kidney, cultured osteoclasts |
| References | <ol style="list-style-type: none"> 1. Wookey, P.J. <i>et al.</i> (2008) Calcitonin receptor immunoreactivity associated with specific cell types in diseased radial and internal mammary arteries. Histopathology. 52 (5): 605-12. 2. Tolcos, M. <i>et al.</i> (2003) Ontogeny of calcitonin receptor mRNA and protein in the developing central nervous system of the rat. J Comp Neurol. 456 (1): 29-38. 3. Tikellis, C. <i>et al.</i> (2003) Calcitonin receptor isoforms expressed in the developing rat kidney. Kidney Int. 63: 416-26. 4. Gnocchi, V.F. <i>et al.</i> (2009) Further characterisation of the molecular signature of quiescent and activated mouse muscle satellite cells. PLoS One. 4(4):e5205. 5. Becskei, C. <i>et al.</i> (2004) Immunohistochemical mapping of calcitonin receptors in the adult rat brain. Brain Res. 1030: 221-33. 6. Gooi, J.H. <i>et al.</i> (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](#).
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](#).
11. Le Roux, I. *et al.* (2015) Numb is required to prevent p53-dependent senescence following skeletal muscle injury. [Nat Commun. 6: 8528](#).
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](#).

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

Regulatory For research purposes only

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

North & South America Tel: +1 800 265 7376

Fax: +1 919 878 3751

Email: 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

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

'M389240:210806'

