

Datasheet: AHP635

BATCH NUMBER 155302

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|----------------------|-------------------------------------|
| 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.

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|---------------------------------|---|
| 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> |

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| 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 | 0.09% Sodium Azide |
| 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 Calcr 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. |

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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

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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](#)
 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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