

## Datasheet: MCA2191

<b>Description:</b>	MOUSE ANTI HUMAN CALCITONIN RECEPTOR
<b>Specificity:</b>	CALCITONIN RECEPTOR
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	31/01-1H10-4-1-14
<b>Isotype:</b>	IgG2a
<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	▪			
Immunohistology - Paraffin (1)	▪			1/50 - 1/500
ELISA	▪			1/1000 - 1/5000
Immunoprecipitation			▪	
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 appropriate negative/positive controls.

**(1) Fixation with 4% paraformaldehyde is recommended for optimal results.**

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	<p>Reacts with: Rabbit</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>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture

supernatant

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**Buffer Solution** Phosphate buffered saline

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**Preservative Stabilisers** < 0.1% sodium azide (NaN<sub>3</sub>)

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**Approx. Protein Concentrations** IgG concentration 1.0 mg/ml

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**Immunogen** Synthetic peptide, DIPIYICHQELRNEPANN, derived from the cytoplasmic domain of human calcitonin receptor.

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**External Database Links**

**UniProt:**

[P30988](#)

[Related reagents](#)

**Entrez Gene:**

[799](#)

CALCR

[Related reagents](#)

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**Fusion Partners** Spleen cells from immunised mice were fused with cells of the mouse SP2/0 myeloma cell line.

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**Specificity** **Mouse anti Human calcitonin receptor antibody, clone 31/01-1H10-4-1-14** recognizes the human calcitonin receptor, a membrane protein with seven transmembrane domains that is coupled to G protein messenger systems. Mouse anti Human calcitonin receptor antibody, clone 31/01-1H10-4-1-14 recognizes an epitope within the cytoplasmic domain that is common to both C1a and C1b human isoforms.

Calcitonin receptor is expressed in kidney, central and peripheral nervous systems and on osteoclasts. It is also expressed in a number of tissues during the development of the embryo and may be important in foetal morphogenesis.

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**Histology Positive Control Tissue**

Human kidney

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**References**

1. Silvestris, F. *et al.* (2008) Expression and function of the calcitonin receptor by myeloma cells in their osteoclast-like activity *in vitro*. [Leuk Res. 32 \(4\): 611-23.](#)
2. Wookey, P.J. *et al.* (2008) Calcitonin receptor immunoreactivity associated with specific cell types in diseased radial and internal mammary arteries. [Histopathology. 52 \(5\): 605-12.](#)
3. Lesclous, P. *et al.* (2009) Bisphosphonate-associated osteonecrosis of the jaw: a key role of inflammation? [Bone. 45 \(5\): 843-52.](#)
4. Wookey, P.J. *et al.* (2009) The elevated expression of calcitonin receptor by cells recruited into the endothelial layer and neo-intima of atherosclerotic plaque. [Histochem Cell Biol. 132: 181-9.](#)
5. Wookey, P.J. *et al.* (2012) The expression of calcitonin receptor detected in malignant cells of the brain tumour glioblastoma multiforme and functional properties in the cell line A172. [Histopathology. 60 \(6\): 895-910.](#)

6. Cappagli, V. *et al.* (2017) Calcitonin receptor expression in medullary thyroid carcinoma. [PeerJ. 5: e3778.](#)
7. Ostrovskaya, A. *et al.* (2019) Expression and activity of the calcitonin receptor family in a sample of primary human high-grade gliomas. [BMC Cancer. 19 \(1\): 157.](#)

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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/MCA2191>  
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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

- Goat Anti Mouse IgG (STAR77...) [HRP](#)
- Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
- Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
- Goat Anti Mouse IgG (STAR76...) [RPE](#)
- Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
- Goat Anti Mouse IgG (STAR70...) [FITC](#)
- Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),  
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),  
[FITC](#), [HRP](#)
- Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
- Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

### Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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