

Datasheet: MCA2191

BATCH NUMBER 172541

Description:	MOUSE ANTI HUMAN CALCITONIN RECEPTOR
Specificity:	CALCITONIN RECEPTOR
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	31/01-1H10-4-1-14
Isotype:	IgG2a
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	▪			
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.

Target Species	Human
Species Cross Reactivity	<p>Reacts with: Rabbit</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

Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
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, DIPIYICHQELRNEPANN, derived from the cytoplasmic domain of human calcitonin receptor.
External Database Links	<p>UniProt: P30988 Related reagents</p> <p>Entrez Gene: 799 CALCR Related reagents</p>
Fusion Partners	Spleen cells from immunised mice were fused with cells of the mouse SP2/0 myeloma cell line.
Specificity	<p>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.</p> <p>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.</p>
Histology Positive Control Tissue	Human kidney
References	<ol style="list-style-type: none"> Silvestris, F. <i>et al.</i> (2008) Expression and function of the calcitonin receptor by myeloma cells in their osteoclast-like activity <i>in vitro</i>. Leuk Res. 32 (4): 611-23. 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. Lesclous, P. <i>et al.</i> (2009) Bisphosphonate-associated osteonecrosis of the jaw: a key role of inflammation? Bone. 45 (5): 843-52. Wookey, P.J. <i>et al.</i> (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. Wookey, P.J. <i>et al.</i> (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.](#)

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: <https://www.bio-rad-antibodies.com/SDS/MCA2191>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)

Goat Anti Mouse IgG (STAR70...) [FITC](#)

Goat Anti Mouse IgG (STAR77...) [HRP](#)

Goat Anti Mouse IgG (STAR76...) [RPE](#)

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)

Rabbit Anti Mouse IgG (STAR13...) [HRP](#)

Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#), [DyLight®650](#), [DyLight®680](#), [DyLight®800](#), [FITC](#), [HRP](#)

Recommended Negative Controls

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

Product inquiries: www.bio-rad-antibodies.com/technical-support

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

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Printed on 05 May 2026