

Datasheet: MCA2191

BATCH NUMBER 230913

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 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) 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 0.09% Sodium Azide

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

UniProt:

[P30988](#)

[Related reagents](#)

Entrez Gene:

[799](#)

CALCR

[Related reagents](#)

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

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.

Histology Positive Control Tissue Kidney

References

1. 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.](#)
2. 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.](#)
3. 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.](#)
4. 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.](#)
5. Lesclous, P. *et al.* (2009) Bisphosphonate-associated osteonecrosis of the jaw: a key role of inflammation? [Bone. 45 \(5\): 843-52.](#)

6. 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.](#)
7. Cappagli, V. *et al.* (2017) Calcitonin receptor expression in medullary thyroid carcinoma. [PeerJ. 5: e3778.](#)

Storage	Store at +4°C or at -20°C if preferred. This product should be stored undiluted. Storage in frost-free freezers is not recommended. 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: https://www.bio-rad-antibodies.com/SDS/MCA2191 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	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 (STAR77...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP

Recommended Negative Controls

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

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
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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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