

SP1338PX**Polyclonal Antibody to Calcitonin receptor - Purified****Alternate names:**

CALCR, CT-R, CTR

Quantity:

50 µg

Concentration:

1.0 mg/ml

Background:

Calcitonin Receptor is a seven transmembrane domain cell surface protein which is coupled to G protein messenger systems. 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.

Uniprot ID:[P32214](#)**NCBI:**[NP_001029187](#)**GeneID:**[116506](#)**Host:**

Rabbit

Immunogen:

Synthetic peptide derived from C-terminal sequence of Rat Calcitonin Receptor

Format:**State:** Liquid purified IgG fraction.**Purification:** Affinity Chromatography on Protein A.**Buffer System:** PBS containing 0.09% Sodium Azide as preservative.**Applications:****ELISA:** 1/10,000.**Western Blot** (Reducing conditions).**Immunofluorescence.****Immunohistochemistry on Frozen Sections:** 1/10-1/50.

Immunohistochemistry on Paraffin Embedded Tissues: 1/10-1/50. 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. Does not require protein digestion pre-treatment nor antigen retrieval using heat prior to staining of paraffin embedded sections.

Suitable Positive Control: Kidney, cultured osteoclasts.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

SP1338P reacts with the Calcitonin Receptor.

It recognizes an epitope within the cytoplasmic domain that is common to both C1a and C1b Rat isoforms.

Species Reactivity:**Tested:** Rat, Mouse, Human, Fish, Atlantic Stingray.**Add. Information:****Antiserum Preparation:** Antisera to calcitonin receptor were raised by repeated immunisations of Rabbits with highly purified antigen.**Storage:**

Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

1. Wookey PJ, Zulli A, Buxton BF, Hare DL. Calcitonin receptor immunoreactivity associated with specific cell types in diseased radial and internal mammary arteries. *Histopathology*. 2008 Apr;52(5):605-12. doi: 10.1111/j.1365-2559.2008.02979.x. PubMed PMID: 18370957.
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3. Kovacs CS, Chafe LL, Woodland ML, McDonald KR, Fudge NJ, Wookey PJ. Calcitropic gene expression suggests a role for the intraplacental yolk sac in maternal-fetal calcium exchange. *Am J Physiol Endocrinol Metab*. 2002 Mar;282(3):E721-32. PubMed PMID: 11832378.
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5. Becskei C, Riediger T, Zünd D, Wookey P, Lutz TA. Immunohistochemical mapping of calcitonin receptors in the adult rat brain. *Brain Res*. 2004 Dec 31;1030(2):221-33. PubMed PMID: 15571671.
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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.
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9. Mourikis P, Gopalakrishnan S, Sambasivan R, Tajbakhsh S. Cell-autonomous Notch activity maintains the temporal specification potential of skeletal muscle stem cells. *Development*. 2012 Dec;139(24):4536-48. doi: 10.1242/dev.084756. Epub 2012 Nov 7. PubMed PMID: 23136394.
10. Park JK, Askin F, Giles JT, Halushka MK, Rosen A, Levine SM. Increased generation of TRAP expressing multinucleated giant cells in patients with granulomatosis with polyangiitis. *PLoS One*. 2012;7(8):e42659. doi: 10.1371/journal.pone.0042659. Epub 2012 Aug 8. PubMed PMID: 22905158.
11. Le Roux I, Konge J, Le Cam L, Flamant P, Tajbakhsh S. Numb is required to prevent p53-dependent senescence following skeletal muscle injury. *Nat Commun*. 2015 Oct 27;6:8528. doi: 10.1038/ncomms9528. PubMed PMID: 26503169.