

Product Information

Anti-Calcitonin Receptor-Like Receptor produced in rabbit, affinity isolated antibody

Catalog Number **C3866**

Product Description

Anti-Calcitonin Receptor-Like Receptor (CRLR activity-modifying-protein 1) is produced in rabbit using as immunogen a synthetic peptide conjugated to KLH. The peptide corresponds to the first extracellular loop of human calcitonin receptor-like receptor. The antibody is affinity-purified using the immunizing peptide immobilized on agarose.

The antibody specifically recognizes human calcitonin receptor-like receptor by immunohistochemistry with formalin-fixed, paraffin-embedded tissues. Not tested for other uses. The immunizing peptide has 100% homology with the rat and mouse gene. Other species reactivity has not been confirmed.

CRLR is a type I membrane protein expressed in many tissues including the uterus, bladder, brain, pancreas and gastro-intestinal tract. A receptor with seven transmembrane domains, the calcitonin receptor-like receptor can function as either a CGRP receptor or an adrenomedullin receptor, depending on which members of receptor-activity-modifying proteins or RAMPs, are expressed. RAMPs are required to transport CRLR to the plasma membrane. RAMP1 presents the receptor at the cell surface as a mature glycoprotein and a CGRP receptor. RAMP2-transported receptors are core-glycosylated and are adrenomedullin receptors

Reagent

Supplied as a solution in phosphate buffered saline, containing $\leq 0.1\%$ sodium azide.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

For continuous use, store at 2-8 °C for up to one month. For extended storage, freeze in working aliquots. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

Product Profile

Immunohistochemistry: a minimum working concentration of 7.5 $\mu\text{g/mL}$ is determined using human arterial smooth muscle.

Note: In order to obtain best results in different techniques and preparations we recommend determining optimal working dilutions by titration test.

References

1. McLatchie, L.M., et al., RAMPs regulate the transport and ligand specificity of the calcitonin receptor-like receptor. *Nature*, **393**, 333-339 (1998)
2. Nagoshi, Y., et al., The calcitonin receptor-like receptor/receptor activity-modifying protein 1 heterodimer can function as a calcitonin gene-related peptide-(8-37)-sensitive adrenomedullin receptor. *Eur. J. Pharmacol.*, **450**, 237-243 (2002).

This product is manufactured by MBL International Corporation

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