

Product datasheet for **AP33515SU-N**

Calca Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	E, IF, IHC
Recommended Dilution:	Immunohistochemistry and Immunocytochemistry. Elisa against α -CGRP. Sample Types: The antibody can react with a variety of sample preparations including frozen tissue sections, paraffin embedded tissue sections and fixed cell cultures. Recommended Starting Dilutions: Immunofluorescence: 1/250-1/16000. Immunohistochemistry: 1/250-1/16000.
Reactivity:	Canine, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	This polyclonal antibody was collected from rabbits immunized with a synthetic peptide as the immunogen. Synthetic peptide H-Ser-Cys-Asn-Thr-Ala-Thr-Cys-Val-Thr-His-Arg-Leu-Ala-Gly-Leu-Leu-Ser-Arg-Ser-Gly-Gly-Val-Val-Lys-Asp-Asn-Phe-Val-Pro-Thr-Asn-Val-Gly-Ser-Glu-Ala-Phe-NH ₂ , (Disulfide bond) coupled to carrier protein
Specificity:	Recognizes Canine, Mouse and Rat Calcitonin gene-related peptide 1 (α -CGRP). Other species not tested.
Formulation:	State: Serum State: Lyophilized whole serum
Reconstitution Method:	Restore with 50 μ l of distilled water for the equivalent of undiluted antiserum.
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	calcitonin/calcitonin-related polypeptide, alpha
Database Link:	Entrez Gene 12310 Mouse Q99JA0



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Background:

Calcitonin gene-related peptide (CGRP), amylin (AMY), and adrenomedullin (ADM) are structurally related peptides of the same family. They are characterized by six to seven amino acid ring structure linked by a disulfide bridge and an amidated C-terminus. CGRP is a 37 amino acid peptide derived from the alternative splicing, which is tissue specific, of the calcitonin gene and may exist in two forms alpha and beta with similar biological functions. Calcitonin gene-related peptide is widely found in both the central and peripheral (sensory and motor neurons) nervous systems. Structural activity studies have found that following peripheral or intracerebroventricular injections of CGRP, several biological actions have been demonstrated that are mediated by the activation of the CGRP receptor subtypes designated CGRP1 and CGRP2. BIBN4096BS, a potent non-peptide antagonist, competitively antagonizes the effects of CGRP in the rat atrium with a potency of about 10-fold higher than that of CGRP (8-37). BIBN4096BS was much less potent at antagonizing the effects of CGRP, proposed to be mediated by the CGRP2 subtype. An orphan receptor originally described as the calcitonin-receptor-like receptor (CRLR) has been identified as a CGRP receptor. Co-expression with a single transmembrane receptor, termed receptor-activity-modifying protein 1 (RAMP1), is required for this receptor to behave as a CGRP1 receptor.

Synonyms:

Calcitonin gene-related peptide I, Alpha-type CGRP, CALC1, CGRP-I