

Mouse anti-Human, rat Calcitonin Gene Related Peptide (CGRP) Monoclonal Antibody | anti-CALCA antibody

Anti-Calcitonin Gene Related Peptide (CGRP)

CATALOG # AAA72751	HOST Mouse	REACTIVITY Human, rat	APPLICATIONS Immunocytochemistry
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PRODUCT SYNONYMS

Calcitonin Gene Related Peptide (CGRP); Monoclonal Antibody; Anti-Calcitonin Gene Related Peptide (CGRP); anti-CALCA antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, rat
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	4901
Specificity	Specific for the CGRP protein in rat DRG neurons.
Purity/Purification	Protein G purified
Form/Format	100 ul in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 ug per ml BSA and 50% glycerol. Adequate amount of material to conduct 10-mini Western blots.
Sequence Length	128
Applicable Applications for anti-CALCA antibody	ICC (Immunocytochemistry)
Antigen	Rat alpha-CGRP
Immunogen Information	Purified rat alpha-CGRP
Immunogen Species	Rat
Reactivity Assumed Based on 100% Sequence Homology	Most mammals
Species Reactivity Note	The antibody has been directly tested for reactivity in rat and human. Other species have not yet been tested. It is expected that the antibody will react with most mammals.
Biological Significance	Calcitonin Gene Related Peptide [CGRP] is a 37 amino acid peptide and is the most potent endogenous vasodilator currently known (Brain et al.,1985). CGRP is primarily produced in nervous tissue, however, its receptors are expressed throughout the body. CGRP is also strongly implicated in the vasodilatory effect of endogenous cannabinoid anandamide in the brain. This effect was found to be antagonized by capsazepine. CGRP is also currently a major target of research in regards to factors effecting the onset of migraine headaches (Edvinsson L., 2003). CGRP antibodies have been used successfully in immunoneutralization (Wong et al., 1993)
Preparation and Storage	Store at -20 degree C in undiluted aliquots; stable for at least one year after date of receipt. Avoid freeze/thaw cycles.

IMAGES



Application Data

ADDITIONAL INFORMATION

Related Product Information for anti-CALCA antibody	Mouse monoclonal antibody
References	• Brain SD, Williams TJ, Tippins JR, Morris HR, MacIntyre I (1985) Calcitonin gene related peptide is a potent vasodilator. Nature 313 (5997): 54-6 • Edvinsson L (2003) New therapeutic target in primary headaches—blocking the CGRP receptor. Expert Opin Ther Targets.7(3):377-83 • Wong HC, Tache' Y, Lloud KCK, Yang H, Sternini C, Holzer P, Walsh JH (1993) Monoclonal antibody to rat alpha-CGRP: production, charactrization, and in vivo immunoneutralization activity. Hybridoma. 12:93-106.

NCBI AND UNIPROT INFORMATION

NCBI GI #	76880482
NCBI GeneID	24241
NCBI Accession #	NP_001029127.1
NCBI GenBank Nucleotide #	NM_001033955.1
UniProt Accession #	P01256; P01257
Molecular Weight	13,948 Da
NCBI Official Full Name	calcitonin gene-related peptide 1 isoform Cgrp preproprotein
NCBI Official Synonym Full Names	calcitonin-related polypeptide alpha
NCBI Official Symbol	Calca
NCBI Official Synonym Symbols	CAL6; CGRP; Cal1; Calc; RATCAL6; calcitonin
NCBI Protein Information	calcitonin gene-related peptide 1; CGRP-I; alpha-type CGRP; calcitonin gene-related peptide I; calcitonin/calcitonin-related polypeptide, alpha
UniProt Protein Name	Calcitonin gene-related peptide 1
UniProt Gene Name	Calca
UniProt Synonym Gene Names	Calc; CGRP-I
UniProt Entry Name	CALCA_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/calcitonin-gene-related-peptide-cgrp-antibody-clone-4901-immunocytochemistry-elisa/72751>