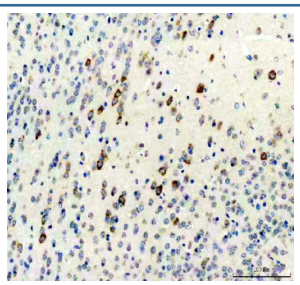
CGRP Antibody / CALCA / Calcitonin (R32425)

Catalog No.	Formulation	Size
R32425	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q99JA0
Localization	Cytoplasmic
Applications	Immunohistochemistry (FFPE) : 2-5ug/ml
Limitations	This CGRP antibody is available for research use only.

IHC staining of FFPE rat brain tissue with CGRP antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



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Description

CGRP (Calcitonin gene-related peptide) is a 37-amino acid neuropeptide derived from alternative splicing of the calcitonin gene. It is widely expressed in sensory neurons and functions as a potent vasodilator, neurotransmitter, and signaling molecule. CGRP plays a critical role in the regulation of vascular tone, pain transmission, and neurogenic inflammation. Researchers often use a CGRP antibody to study its distribution and function in neurobiology and cardiovascular research.

As a neuromodulator, CGRP contributes to nociceptive pathways and is strongly associated with the pathophysiology of migraine. Elevated CGRP levels have been detected during migraine attacks, leading to the development of therapies that target CGRP or its receptor. Employing a CGRP antibody provides valuable insights into mechanisms of pain signaling, vascular biology, and therapeutic intervention.

Beyond its role in the nervous system, CGRP also participates in immune responses and bone metabolism, where it regulates osteoclast activity and influences inflammatory processes. Its widespread physiological functions make it a biomarker and therapeutic target in several conditions including cardiovascular disease, osteoporosis, and chronic pain disorders. Using a CGRP antibody allows for precise localization and quantification in tissues, supporting research across multiple fields.

NSJ Bioreagents offers a high-quality CGRP antibody validated for western blot, immunohistochemistry, and immunofluorescence. By choosing a CGRP antibody from NSJ Bioreagents, researchers gain a reliable tool for studying pain pathways, vascular regulation, and neuropeptide signaling.

Application Notes

Optimal dilution of the CGRP antibody should be determined by the researcher.

Immunogen

Amino acids SCNTATCVTHRLAGLLSRSGGVVKDNFVPTNVGSEAF were used as the immunogen for the CGRP antibody.

Storage

After reconstitution, the CGRP antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.