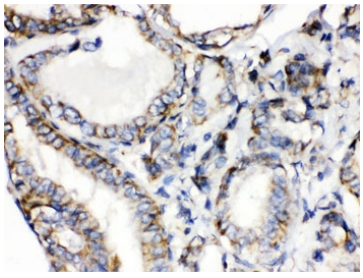
CGRP Antibody / Calcitonin Gene-Related Peptide 1 Antibody (R32377)

Catalog No.	Formulation	Size
R32377	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	P06881
Localization	Cytoplasmic
Applications	IHC (FFPE): 0.5-1ug/ml
Limitations	This CGRP Antibody / Calcitonin Gene-Related Peptide 1 Antibody is available for research use only.



CGRP Antibody Staining of Human Thyroid Cancer IHC. Immunohistochemistry of FFPE human thyroid cancer tissue using CGRP Antibody. HIER was performed by boiling tissue sections in pH 6 10 mM citrate buffer for 20 min followed by cooling before staining. Brown cytoplasmic immunoreactivity is visible within tumor cells, demonstrating detection by this Calcitonin Gene-Related Peptide 1 Antibody in the tested thyroid cancer section.

Description

CGRP Antibody / Calcitonin Gene-Related Peptide 1 Antibody recognizes alpha-calcitonin gene-related peptide, commonly called alpha-CGRP or CGRP1, a 37-amino acid neuropeptide produced from the CALCA gene. Alternative RNA processing of CALCA generates distinct transcripts that give rise to calcitonin or alpha-CGRP depending on the cellular context. While calcitonin is prominently associated with thyroid parafollicular C cells and calcium homeostasis,

alpha-CGRP is widely studied as a signaling peptide in sensory neurons and the neurovascular system.

Alpha-CGRP is a potent vasodilatory neuropeptide with important functions in sensory signaling, vascular regulation, and neurogenic inflammation. It is released from subsets of sensory neurons and acts through the CGRP receptor complex, which includes calcitonin receptor-like receptor and receptor activity-modifying protein 1. CGRP signaling can influence vascular smooth muscle tone, neuronal communication, inflammatory responses, and interactions between the nervous and cardiovascular systems.

CGRP biology has received considerable attention in studies of nociception, migraine, neurovascular signaling, and sensory nerve function. Elevated or dysregulated CGRP signaling is particularly relevant to migraine biology, where the CGRP pathway has become an important molecular target. Calcitonin Gene-Related Peptide 1 is also investigated in cardiovascular physiology, inflammation, tissue innervation, and communication between peripheral sensory neurons and their target tissues.

This polyclonal CGRP Antibody was generated against the mature human alpha-CGRP peptide sequence, providing direct targeting of the CALCA-derived neuropeptide rather than the broader CALCA precursor. NSJ Bioreagents offers this Calcitonin Gene-Related Peptide 1 Antibody for researchers investigating CGRP expression, sensory neuroscience, neurovascular biology, and peptide signaling. A CGRP Antibody provides a reagent for studying the mature alpha-CGRP neuropeptide and its distribution in biological systems.

For a monoclonal reagent targeting a distinct CALCA-derived peptide product, see our Calcitonin Antibody CALCA/3310 / CALCA Antibody page.

Application Notes

Optimal dilution of the CGRP Antibody / Calcitonin Gene-Related Peptide 1 Antibody should be determined by the researcher.

Immunogen

Amino acids ACDTATCVTHRLAGLLSRSGGVVKNNFVPTNVGSKAF 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.

Alternate Names

CGRP antibody, CGRP1 antibody, CGRP-alpha antibody, alpha-CGRP antibody, Calcitonin gene-related peptide 1 antibody, Calcitonin gene-related peptide alpha antibody

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