

CGRP

Cat.No. 414 004; Polyclonal Guinea pig antibody, 100 µl antiserum (lyophilized)

Data Sheet

Reconstitution/ Storage	100 µl antiserum, lyophilized. For reconstitution add 100 µl H ₂ O, then aliquot and store at -20°C until use.
Applications	IHC: 1 : 500 IHC-P/FFPE: 1 : 1000
Immunogen	Synthetic peptide corresponding to AA 100 to 119 from mouse Calcitonin gene-related peptide 1 (UniProt Id: Q99JA0)
Reactivity	Reacts with: mouse (Q99JA0), rat (P01256), human (P06881). Other species not tested yet.
Specificity	This antibody recognizes α-CGRP. It may crossreact with the unprocessed precursor protein and with β-CGRP due to sequence homology.

TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

Calcitonin gene-related peptide (**CGRP**) is a 37-amino acid peptide produced by alternative splicing of calcitonin gene transcripts. It is characterized by a six amino acid ring structure linked by a disulfide bridge and an amidated C-terminus.

CGRP is present in parafollicular cells (C-cells) of the thyroid and in central and peripheral nerves. It is a potent vasodilator and can function in the transmission of pain. It has a major role in migraine pathophysiology, and CGRP antibodies have been used successfully in immunoneutralization.

Selected General References

The Parabrachial Nucleus: CGRP Neurons Function as a General Alarm.
Palmiter RD

Trends in neurosciences (2018) 41(5): 280-293.

CGRP as the target of new migraine therapies - successful translation from bench to clinic.
Edvinsson L, Haanes KA, Warfvinge K, Krause DN
Nature reviews. Neurology (2018) 14(6): 338-350.

CGRP: sensory neuropeptide with multiple neurologic implications.

Benarroch EE
Neurology (2011) 77(3): 281-7.