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PRODUCT DATASHEET

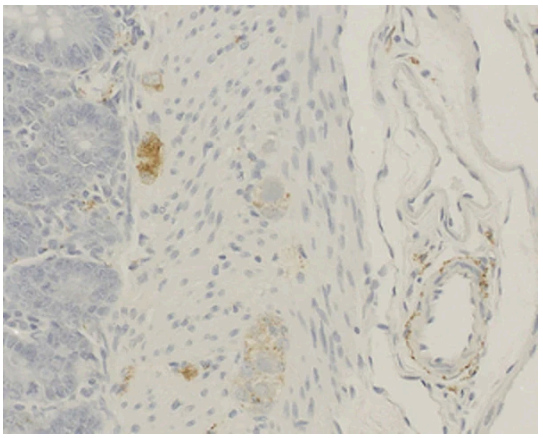
Anti-Alpha-Calcitonin Gene-Related Peptide (alpha-CGRP) Antibody

Product Details

Available Variants	100 uL (SKU:ABS 026-010-010) 400 uL (SKU:ABS 026-04-04) 1000 uL (SKU:ABS 026-04-1)
Conjugate	Unconjugated
Isotype	IgG1/k
Clone	4
Gene Name	CALCA
Host Species	Mouse
Concentration	1 mg/mL ±15%
Format	Protein A or Protein G purified
Physical State	Liquid
Buffer	0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15 mM sodium azide
Production Notes	BSA free
Applications	ELISA, IHC
Dilution Ranges	IHC: 1:100
Species Reactivity	Human
Immunogen	Synthetic human α-CGRP
Specificity	ABS 026-04 binds human α-CGRP. Based on inhibition ELISA, ABS 026-04 cross-reacts up to 12% with human β-CGRP and human amylin, while there is little (<4%) cross-reaction with rat α-CGRP. The epitope lies within residues 19-37 of human α-CGRP.
Molecular Weight	11 kDa (pro-CGRP), 5 kDa (active)
Storage	2-8°C without exposure to light

UniProt ID	P06881 UniProt Summary: CGRP1/CALCA is a peptide hormone that induces vasodilation mediated by the CALCRL-RAMP1 receptor complex (PubMed:1318039, PubMed:33602864, PubMed:9620797). Dilates a variety of vessels including the coronary, cerebral and systemic vasculature. Its abundance in the CNS also points toward a neurotransmitter or neuromodulator role (PubMed:3492492). It also elevates platelet cAMP (PubMed:1318039). CGRP1 can also bind and activate CALCR-RAMP1 (AMYR1) receptor complex (PubMed:38603770). {ECO:0000269|PubMed:1318039, ECO:0000269|PubMed:33602864, ECO:0000269|PubMed:3492492, ECO:0000269|PubMed:38603770, ECO:0000269|PubMed:9620797}.
Country of Origin	United States
Shipping	Shipped on ice packs
Expiration	24 months from date of receipt
Usage Statement	These antibodies are to be used as research laboratory reagents and are not for use as diagnostic or therapeutic reagents in humans.
NCBI Gene ID	796

Product Images



Immunohistochemistry detection of Alpha-calcitonin gene-related peptide (α-CGRP) in rat tissue tissue using Anti-Alpha-Calcitonin Gene-Related Peptide (alpha-CGRP) Antibody (Cat.ABS 026-010-010). Tissue was mounted and pariffin fixed. Heat induced antigen retrieval was performed using citrate buffer, heated, and then blocked. After washing, the primary antibody (Cat.ABS 026-010-010) was incubated with the sample.

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