

Anti- α -calcitonin gene-related peptide (α -CGRP)

CAT. NO. ABS 026-04

OVERVIEW

Product Name	Anti- α -calcitonin gene-related peptide (α -CGRP)	Conjugation	Unconjugated
Description	Mouse monoclonal antibody	Host	Mouse
Isotype	IgG1/k	Clone	4
Tested Applications	ELISA, IHC		

SPECIFICITY

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.		
Immunogen	Synthetic human α -CGRP	Gene ID	796, 24241
Target	Calcitonin gene-related peptide is a 37 amino acid vasoactive neuropeptide (MW 3789) widely expressed throughout the central and peripheral nervous system. CGRP has potent vasodilatory effects probably serving as a regulator of regional blood flow, in addition to a variety of other cellular effects.		
Species Reactivity POSITIVE	Human, Rat	Species Reactivity NEGATIVE	Not determined

PROPERTIES

Form	Liquid	Unit Size	0,4 mL and 1 mL
Concentration	1 mg/mL \pm 15%, See CoA for lot details		
Purification	Protein A or Protein G purified	Purification Notes	BSA free
Storage buffer	0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15 mM sodium azide		
Storage condition	2-8°C without exposure to light		
Safety	Wear protective clothing		

TESTED APPLICATIONS

ELISA	ABS 026-04 binds free human α -CGRP in solution. ABS 026-04 (as biotinylated detection antibody) forms a sandwich ELISA pair with ABS 026-05 (as capture antibody) for measuring human α -CGRP, giving a detection limit of 0.13 nmol/L in an unoptimized buffer assay.
IHC	ABS 026-04 works well in IHC on paraffin embedded tissue.

SCIENTIFIC REFERENCES

N/A

CONDITIONS

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