

**Anti- $\alpha$ -calcitonin gene-related peptide ( $\alpha$ -CGRP) Mouse Monoclonal Antibody**

Subclass: IgG1/k

CAT. NO.

**ABS 026-05**

Clone: 5

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SPECIFICITY	ABS 026-05 binds human $\alpha$ -CGRP. Based on inhibition ELISA, ABS 026-05 shows full cross-reactivity with rat $\alpha$ -CGRP and about 50% cross-reactivity with human $\beta$ -CGRP. There is no cross-reaction with human amylin.
IMMUNOGEN	Synthetic human $\alpha$ -CGRP
TESTED APPLICATIONS	ELISA, IHC-P
SPECIES REACTIVITY (POSITIVE)	Human, rat (8%)
SPECIES REACTIVITY (NEGATIVE)	Not determined
EPITOPE SPECIFICITY	The epitope lies within residues 1-18 of human $\alpha$ -CGRP

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**PRESENTATION**

Content:	Available in 400 $\mu$ L and 1 mL size. 1 mg/mL +/- 15%. See Certificate of Analysis for details.
Preparation:	Protein-A purified
Form:	Liquid
Solvent:	0.01 M phosphate buffer, pH 7.4, containing 0.5 M NaCl and 15 mM sodium azide
Storage:	4-8°C without exposure to light. No precautions necessary during handling.

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**APPLICATION**

**ELISA:** ABS 026-05 binds free  $\alpha$ -CGRP in solution. Based on inhibition ELISA, the affinity of ABS 026-05 is at least 24 times higher than that of ABS 026-04.  
ABS 026-05 (as capture antibody) forms a sandwich ELISA pair with ABS 026-04 (as biotinylated detection antibody) for measuring human  $\alpha$ -CGRP, giving a detection limit of 0.13 nmol/L in an unoptimized buffer assay.  
**IHC:** ABS 026-05 works well in IHC on paraffin embedded tissue.

**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.

**REFERENCES**

**CONDITIONS**

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