

**Anti alfa-CGRP (calcitonin gene-related peptide, human)  
Mouse Monoclonal Antibody**

Subclass: IgG1/k

PRODUCT NO.	<b>ABS 026-05</b>
PRESENTATION	Preparation: Protein-A/G purified Content: Available in 200 µL and 1 mL, 1 mg/mL Solvent: 0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15mM sodium azide Storage: In the dark at 4-8°C
ANTIGEN	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.
IMMUNOGEN	Synthetic human alfa-CGRP coupled to carrier
SPECIFICITY	ABS 026-05 binds human alfa-CGRP. Based on inhibition ELISA, ABS 026-05 shows full cross-reactivity with rat alfa-CGRP and about about 50% cross-reactivity with human beta-CGRP. Cross-reactivity with coated rat alfa-CGRP is low (8%) and there is no cross-reaction with human amylin.
EPI TOPE SPECIFICITY	The epitope lies within residues 1-18 of human alfa-CGRP
REACTIVITY	ABS 026-05 binds free alfa-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. The ELISA dilution guideline of applies to human alfa-CGRP coated directly at 1.0 g/mL. showing that the antibody binds poorly to the denatured peptide.  ABS 026-05 (as capture antibody) forms a sandwich ELISA pair with ABS 026-04 (as biotinylated detection antibody) for measuring human alfa-CGRP, giving a detection limit of 0.13 nmol/L in an unoptimized buffer assay.
CULTURE MEDIUM	RPMI 1640 with 10% fetal calf serum
FUSION PARTNER	SP2mIL6.
IMMUNIZATION	Female NMR1xBALB/c mice immunized i.p. with immunogen adsorbed onto aluminum hydroxide gel and emulsified in Freund's incomplete adjuvant.

## APPLICATION

Method	Usability	Dilution guideline	References
ELISA	Yes	1:4000	
Immunoblotting	Not determined		
Immunohistochemistry	Not determined		

The dilution guideline for ELISA is based on use as detection antibody for antigen coated at 0.1-1 µg/ml. Users should determine the optimal dilutions for their own purposes.

## REFERENCES

## CONDITIONS

All products are supplied on the understanding that they are for in vitro use only. The information and product are offered without guarantee as the ultimate conditions of use are beyond our control. The animals from which this product was derived have not been exposed to or inoculated with any livestock or poultry disease agents exotic to the United States or Western Europe, and did not originate from facilities where work with exotic disease agents affecting livestock or avian species is carried out.