

## Alpha-CGRP (A2) Antibody

**Subcategory:** Mouse Monoclonal Antibody

**Cat. No.:** 250238

**Unit:** 0.2 mg

**Description:**

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. This antibody binds an epitope within the aa 1-18 of human alpha-CGRP. Based on inhibition ELISA, this antibody shows full cross-reactivity with rat alpha-CGRP and about 50% cross-reactivity with human beta-CGRP. Cross-reactivity with coated rat alpha-CGRP is low (8%) and there is no cross-reaction with human amylin.

**Isotype:** Mouse IgG1/k

**Applications:** E, IHC

**Species Reactivity:** H, R

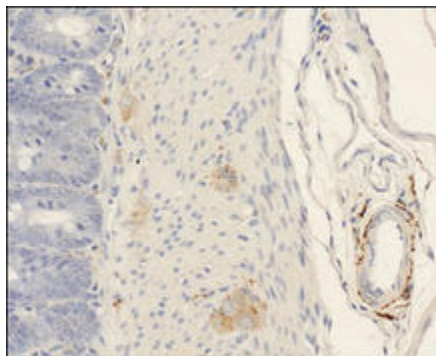
**Format:** Each vial contains 0.2 mg IgG in 0.2 ml (1 mg/ml) of PBS pH7.4 with 0.09% sodium azide. Antibody was purified by Protein-A/G affinity chromatography.

**Alternate Names:** Calcitonin gene-related peptide 1 (Precursor); CGRP-1; Alpha-type CGRP

**Accession No.:** P06881

**Antigen:** Synthetic human alpha-CGRP adsorbed onto aluminum hydroxide gel

**Application Notes:** Product Cat. No. 250238 binds free alpha-CGRP in solution. Based on inhibition ELISA, the affinity of Product Cat. No. 250238 is at least 24 fold higher than the one of Product Cat. No. 250237. The ELISA dilution guideline applies to human alpha-CGRP coated directly at 1.0 ug/mL. Product Cat. No. 250238 (as capture antibody) forms a sandwich ELISA pair with Product Cat. No. 250237 (as biotinylated detection antibody) for measuring human alpha-CGRP, giving a detection limit of 0.13 nmol/L in an unoptimized buffer assay. The antibody is used in IHC with paraffin-embedded tissues. E: 1:2,000; IHC: 1:200-1:400



**Paraffin-embedded rat tissue is stained with Alpha-CGRP (A2) Antibody (Cat. No. 250238) used at 1:400 dilution.**

**Storage:** Store at 4°C. Product is guaranteed 6 months from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.