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## Mouse Anti-HP CagA Monoclonal Antibody Datasheet

**Product Name:** mAb anti-HP CagA

**Clone No.:** 5H10

**Catalogue No.:** MO-I40020B

**Quantity:** 0.5 mg/vial

**Description:** Mouse monoclonal antibody (mAb) to *H. pylori* cytotoxin associated gene A protein (CagA).

**Purification:** Protein G affinity purified

**Product Type:** Primary antibody.

**Target Protein:** *H. pylori* cytotoxin associated gene A protein

**Immunogen:** A 32KD recombinant protein cloned from the highly immunogenic region of *H. pylori* cytotoxin associated gene A.

**Fusion** Sp2/0-Ag14

**Myeloma:**

**Specificity:** The mAb reacts with *H. pylori* CagA.

**Cross - Reactivity:** Cross-reaction with other proteins has not been found.

**Host / Isotype:** Mouse, IgG1 Kappa

**Formulation:** Lyophilized from a solution in 0.01M PBS, pH 7.0

**Reconstitution:** Double distilled water is recommended to adjust the final concentration to 1.00mg/mL.

**Storage:** Store at -20°C

**Research Area:** Bacteriology

**Background:** *Helicobacter pylori* (*H. pylori*), a spiral rod shaped gram-negative bacterium, is frequently found in the stomach. In infected populations, 10-20% may develop gastritis and gastric ulcer and 1-2% may develop cancer. The genome of *H. pylori* isolates from carriers with symptoms contains a 40kb pathogenicity island encoding *H. pylori* cytotoxin, cytotoxin associated gene A protein (CagA) and other virulence associated factors. CagA is used as a biomarker for virulent *H. pylori* strains.

**Applications:** **ELISA:** Clone 5H10 can be used as capture antibody in sandwich ELISA to detect the recombinant CagA antigen in combination with HRP conjugated anti-CagA clone 5C6, clone 3C10 and clone 3C1. In addition, clone 5H10 coated wells selectively react with cell lysate of CagA containing *H. pylori* strain when HRP conjugated anti-CagA clone 5C6 is used as detection antibody.

**References:** If research is published using this product, please inform Anogen in order to cite the reference on this datasheet. Anogen will provide one unit of product in the same category as gratitude.

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