# Helicobacter Pylori Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | Helicobacter pylori, Polyclonal Antibody |
| **Full Product Name** | Helicobacter pylori (APC) |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC). |
| **Purity/Purification** | Purified IgG fraction |
| **Specificity** | Recognizes whole cell lysate of Helicobacter pylori. |
| **Preparation and Storage** | May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. |
| **Immunogen** | Whole cell lysate from Helicobacter pylori strain 43504. |
| **Conjugate** | APC |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-Helicobacter pylori antibody** | Antibodies; Infectious Disease Helicobacter |
| **Applications Tested/Suitable for anti-Helicobacter pylori antibody** | ELISA (EIA), Immunohistochemistry (IHC), Western Blot (WB) |
| **Application Notes for anti-Helicobacter pylori antibody** | Applications are based on unconjugated antibody. |
| **Related Product Information for anti-Helicobacter pylori antibody** | Helicobacter pylori is a spiral-shaped, Gram-negative rod approximately 0.5x3.0um in size. The catalase-positive organism has 4-6 sheathed flagella attached to one pole which allow for motility. Helicobacter pylori lives in the stomach and duodenum (section of intestine just below stomach). It has a unique way of adapting in the harsh environment of the stomach. The inside of the stomach is bathed in about half a gallon of gastric juice every day. Gastric juice is composed of digestive enzymes and concentrated hydrochloric acid, which can readily tear apart the toughest food or microorganism. Bacteria, viruses, and yesterdays steak dinner are all consumed in this deadly bath of chemicals. It used to be thought that the stomach contained no bacteria and was actually sterile, but Helicobacter pylori changed that. The stomach is protected from its own gastric juice by a thick layer of mucus that covers the stomach lining. Helicobacter pylori takes advantage of this protection by living in the mucus lining. Once H. pylori is safely ensconced in the mucus, it is able to fight the stomach acid that does reach it with an enzyme it possesses called urease. Urease converts urea, of which there is an abundant supply in the stomach (from saliva and gastric juices), into bicarbonate and ammonia, which are strong bases. This creates a cloud of acid neutralizing chemicals around the H. pylori, protecting it from the acid in the stomach. The reaction of urea hydrolysis is important for identification of H. pylori by the breath test. |
| **Other Notes** | Small volumes of anti-Helicobacter pylori antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for Helicobacter pylori purchase** | MBS6479851 is an antibody targeting Helicobacter pylori. Also known as Helicobacter pylori (APC). Host: Rabbit. |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures.

**MyBioSource** | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
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