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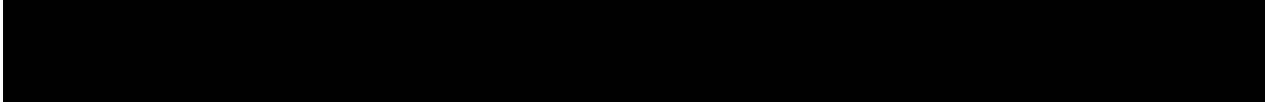
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Antibodies to pathogenic bacteria

Anti-Helicobacter pylori Antibodies (Hyp1-101AP)

Helicobacter pylori is a spiral shaped bacterium that lives in the stomach. It has a unique way of adapting to the harsh, acidic gastric environment. It has been studied rather extensively and believed by many in the medical community to play an important role in the development of gastritis and peptic ulcers. Consequently, there has been a fundamental shift in mainstream ulcer care from the widespread use of antacids (which temporarily alleviated some symptoms, but did nothing to address the root cause of the problem) to the "treatment" of gastritis and ulcers with potent antibiotics intended to kill *H. pylori*. *H. pylori* produces peptic ulcers by weakening the protective mucous coating of the stomach and duodenum, which allowed acid to get through to the sensitive lining beneath. Both the acid and the bacteria irritate the lining and cause a sore, or ulcer. *H. pylori* is able to survive in stomach acid because it secretes enzymes that neutralize the acid. This mechanism allows *H. pylori* to make its way to the "safe" area—the protective mucous lining. Once there, the bacterium's spiral shape helps it burrow through the lining. It is not clear why only a fraction of infected patients become symptomatic for the disease while others do not. It is believed that the bacteria are spread from individual to individual by fecal to oral or oral to oral route.

Several diagnostic tests for *H. pylori* infection have been developed over the past several years, including breath test, blood and stool. Tissue test are done by taking a biopsy and examining the formation of urea produced by the bacteria, a culture or by actually staining the bacteria using antibodies to the bacteria coat proteins. FabGennix has produced antibodies to *H. pylori* bacteria core protein antigens. The binding of *H. pylori* to MHC class II receptors in gastric epithelial cells led to increased activity of caspases and apoptosis (1). *H. pylori* infections are also associated with iron deficiency and anemia. *H. pylori* infection has been manifested in a number of vascular disorder including heart disease. FabGennix Int. Inc., has produced anti-Halicobacter pylori antibodies using denatured whole bacteria. The *H. pylori* selective antibodies are affinity purified against immobilized antigen based affinity chromatography which yielded epitope-specific antibodies. The *H. pylori* antibodies label the bacteria on fixed and frozen sections. Anti-*H. pylori*-selective antibodies are also available in enzyme and fluorescent dye conjugated form for immunohistochemistry applications. FabGennix Inc. will conjugate antibodies with other fluorescent probes upon request at extra charge. Limited quantities of heat killed and denatured bacterial extracts are also available for immunodepletion assays



R = rat; M = mouse; H = human; C = chicken; monk = monkey; Sh = sheep; B = bovine ; * not all variants are labeled equally

- Immunogen:** Heat/autoclaved killed and denatured Halicobacter pylori extracts was used to generate antibodies in rabbit.
- Concentration:** Hyp1-101AP 0.80-1.35 mg/ml of antibody stabilization buffer
- Applications:** Hyp1-101AP is tested for immunohistochemistry applications on fixed and frozen sections at 1:300 dilution. Other applications for this antibody has not been tested. WB: > n.d; IMM & i.p pull-down assays: n.d (Antibody dilutions for this antibody is for reference only, investigators are expected to determine the optimal conditions).
- Protocols:** Standard protocol for various applications (WB, IMM, IHC) for Hpy1-101AP antibody can be obtained upon request. The specification sheet for Hpy1-101AP antibody will be supplied with each product. FabGennix Inc., strongly recommends investigators to optimize conditions for use of this antibody in their laboratories.
- From/Storage:** The antiserum is supplied in antibody stabilization buffer. For long-term storage of antibody, store at -20°C FabGennix Inc. does not recommend storage of very dilute antibody solutions unless they are prepared in specially formulated multi use antibody dilution buffer (Cat # DiluOBuffer). Working solutions of antibodies in DiluOBuffer should be filtered through 0.45u filter after every use for long-term storage.
- Notes:** Western blots now can be stripped and recycle using our specially formulated StripObuffer (Cat # FGI-1989). This stripping buffer does not require heating or have any pungent smell. Strip the membrane, block in diluObuffer and you are ready for the next cycle of antibody screening. Ask for a free sample of StripObuffer and DiluObuffer.

References:

1. Bland DA, Suarez G, Beswick EJ, Sierra JC, Reyes VE. World H pylori receptor MHC class II contributes to the dynamic gastric epithelial apoptotic response J Gastroenterol. 2006 Aug 7;12(29):4689-93.

* For users who may require large amounts of hyp1-101AP, please enquire about bulk material discounts.
This Product is for Research Use Only and is NOT intended for use in humans or clinical diagnosis.

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