

## Rabbit Polyclonal Heliobacter pylori antibody FITC

Catalog Number: HYPL-FITC

Lot Number:

### General Information

<b>Product</b>	Heliobacter pylori Antibody FITC
<b>Accession #</b>	Uniprot: Q96CV9
<b>Verified Applications</b>	CM, ELISA, ICC, IF, IP, IHC, WB
<b>Species Cross Reactivity</b>	Heliobacter pylori
<b>Host</b>	Rabbit
<b>Immunogen</b>	Heat killed and denatured Heliocobacter pylori extracts
<b>Alternative Nomenclature</b>	H. pylori antibody

### Physical Properties

<b>Quantity</b>	100 µg
<b>Volume</b>	200 µl
<b>Form</b>	FITC-Conjugated Immunoglobulins
<b>Immunoglobulin &amp; Concentration</b>	0.5 mg/ml IgG in antibody stabilization buffer
<b>Storage</b>	Store at -20°C for long term storage.

### Recommended Dilutions

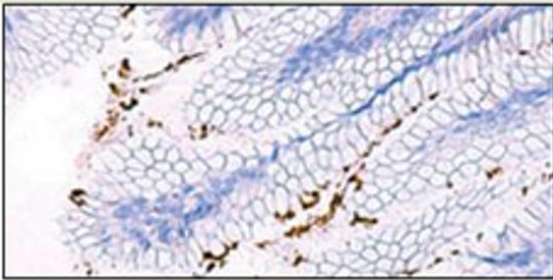
<b>ELISA</b>	1:10000
<b>Immunocytochemistry</b>	1:200
<b>Immunohistochemistry</b>	1:200
<b>Immunoprecipitation</b>	1:200
<b>Western Blot</b>	1:500

### Related Products

### Catalog #

<b>Affinity Purified</b>	HPYL-101AP
<b>Antigenic Blocking Peptide</b>	P-HPYL
<b>Western Blot Positive Control</b>	PC-HPYL
<b>Outer membrane protein 26 H. pylori</b>	HOPL-101AP
<b>hopQ H. pylori</b>	HOPQ-101AP

## Application Verification:



IHC of HPYL-101AP with gastric mucosa. 1:250 antibody, dilution in DiluObuffer.

Dilutions are for reference only. Applications not listed above are not necessarily precluded from working with this antibody. Investigators intending to use an application that has not been verified can request a complimentary sample.

## Overview:

*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 allows acid to get through to the sensitive lining beneath. Both the acid and the bacteria irritate the lining and cause a sore or ulcer. 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* is able to survive in stomach acid because it secretes enzymes that neutralize the acid. This mechanism allows *H. pylori* to make its way through 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. *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.

*Helicobacter pylori* antibodies were produced using heat killed and denatured *Helicobacter pylori* 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. *H. pylori*-selective antibodies are also available in enzyme and fluorescent dye conjugated form for immunohistochemistry applications. FabGennix will conjugate antibodies with other fluorescent probes or secondary enzymes upon request at extra charge. Limited quantities of heat killed and denatured bacterial extracts are also available for immunodepletion assays or as a positive control.

## 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 the products listed above, please inquire about bulk material discounts. This Product is for Research Use Only and is NOT intended for use in humans or clinical diagnosis.