

CE VD Rabbit anti-Helicobacter pylori Cat. No.: BRB032 (16 ml Ready-to-use)

Instructions for use

Intended use

This antibody is designed for the specific localisation of *Helicobacter pylori* in formalin-fixed, paraffin-embedded tissue sections. Anti- *Helicobacter pylori* is intended for in vitro diagnostic use.

Specifications

Specificity:	Helicobacter pylori
Clone:	polyclonal
Isotype:	Rabbit Ig
Species reactivity:	Helicobacter pylori

Summary and description

Helicobacter pylori is a helical micro-aerophile gram-negative bacterium. It is characterised by the formation of the enzyme urease, which protects the bacteria against the aggressive gastric acid. The microorganisms are typically found on the surface and inside the cells of pyloric and stomach mucosa.

Today *Helicobacter pylori* is known as important cause of gastro-intestinal diseases. The infection is associated with chronic atrophic gastritis, peptic ulcer disease, and gastro-duodenale reflux disease. Additionally, *Helicobacter pylori* infection is strongly associated with gastric lymphomas, gastric adenocarcinoma, and lymphoid hyperplasia (MALT-lymphoma).

The bacteria can persist for years. In most cases the infection remains asymptotic for a long time but nevertheless changes the stomach mucosa. This results in chronic inflammation and later in chronic active gastritis which can cause stomach and duodenal ulcer.

Reagent provided

Polyclonal rabbit antibody in buffer with carrier protein and preservative for stabilisation in the formats: **Ready-to-use:** 16 ml (Cat. No. BRB032)

Dilution of primary antibody

None

Storage and handling

The antibody cocktail should be stored at 2-8°C without further dilution.

If necessary, dilutions of the antibody should be done in a suitable antibody dilution buffer (e.g. ZUC025 from Zytomed Systems). The diluted antibody should be stored at 2-8°C after use. Stability of this working solution depends on various parameters and has to be confirmed by appropriate controls.

The antibody cocktail provided is suitable for use until the expiry date indicated on the label, if stored at 2-8°C. Do not use product after the expiry date. Positive and negative controls should be run simultaneously with all specimens. If unexpected staining is observed which cannot be explained by variations in laboratory procedures and a problem with the antibody is suspected, contact Zytomed Systems' technical support or your local distributor.

Precautions

Use through qualified personnel only. Wear protective clothing to avoid contact of reagents and specimens with eye, skin and mucous membranes. If reagents or specimens come in contact with sensitive area, wash with large amounts of water.

Microbial contamination of the reagent must be avoided, since otherwise non-specific staining may occur. ProClin300 and sodium azide (NaN₃) are used for stabilisation. Reaction of sodium azide with lead or copper in drainage pipes can result in the formation of highly explosive metallic azides. Discard the antibody solution in a large volume of running water to avoid formation of deposits. A material safety data sheet (MSDS) for the pure substances is available upon request.

Staining procedure

Refer to the following table for conditions specifically recommended for this antibody. Also refer to detection system data sheets for guidance on specific staining protocols or other requirements.

<u>Parameter</u>	<u>Zytomed Systems recommendations</u>
* Pre-treatment	Heat Induced Epitope Retrieval (for example in Citrate Buffer pH 6.0 ZUC028)
* Control tissue	<i>Helicobacter pylori</i> infected tissue
* Working dilution	None
* Incubation time	60 minutes

Quality control

The recommended positive control tissues for this antibody is *Helicobacter pylori* infected stomach mucosa.. We recommend carrying out a positive and a negative control with every staining run. Please refer to the instructions of the detection system for guidance on general guality control procedures.

Troubleshooting

If you observe unusual staining or other deviations from the expected results please read these instructions carefully, refer to the instructions of the detection system for relevant information or contact your local distributor.

Expected results

This antibody stains positive in *Helicobacter pylori* bacteria in formalin-fixed, paraffin-embedded tissue sections. Interpretation of the staining results is solely the responsibility of the user. Any experimental result should be confirmed by a medically established diagnostic procedure.

Limitations of the Procedure

Immunohistochemistry is a complex technique involving both histological and immunological detection methods. Tissue processing and handling prior to immunostaining, for example variations in fixation and embedding or the inherent nature of the tissue can cause inconsistent results (Nadji and Morales, 1983). Endogenous peroxidase or pseudo-peroxidase activity in erythrocytes, alkaline phosphatase or biotin may cause non-specific staining depending on the detection system used. Tissues containing Hepatitis B Surface Antigen (HBsAg) may give false positive results with HRP (horse radish peroxidase) detection systems (Omata et al, 1980). Inadequate counterstaining and mounting can influence the interpretation of the results.

Zytomed Systems warrants that the product will meet all requirements described from its shipping date until the expiry date is reached, if the product is stored and utilised as recommended. No additional guarantees can be given. Under no circumstances shall Zytomed System be liable for any damages arising out of the use of the reagent provided.

Performance characteristics

Zytomed Systems has conducted studies to evaluate the performance of the antibody for use with a standard detection system. The product has been found to be sensitive and specific to the antigen of interest with minimal or no cross-reactivity.

Bibliography:

Toulaymat M et al. Arch Pathol Lab Med 1999 Sep;123(9):778-81 Shimizu T et al. Helicobacter 1996 Dec;1(4):197-206 Nadji M and Morales AR. Ann N.Y. Acad Sci 1983; 420:134-139



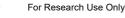
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Explanations of the symbols on the product label

Symbols are used in accordance with ISO 15223-1. Further symbols on the product label might be:



GSH07: Warning / Attention



Cartun, RW et al. Modern Pathology Vol. 4, No. 4, p. 498-502, 1991 Jhala N et al. Am J Clin Pathol. 2003;119:101-107 Omata M et al Am J Clin Pathol 1980; 73: 626-632