



## Rabbit anti-Helicobacter pylori

**Cat. No.: AIB-30109 (1 ml Concentrate); AIB-30110 (0.5 ml Concentrate);  
AIB-30108 (6 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* antibody is intended for in vitro diagnostic use.

#### Specifications

<b>Specificity:</b>	<i>Helicobacter pylori</i>
<b>Clone:</b>	polyclonal
<b>Isotype:</b>	Rabbit Ig
<b>Species reactivity:</b>	<i>Helicobacter pylori</i>

#### 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 asymptomatic 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








Rabbit polyclonal antibody in phosphate buffer with carrier protein and preservative for stabilisation in the following formats:

<b>Concentrate:</b>	1 ml	(Cat. No. AIB-30109)
<b>Concentrate:</b>	0.5 ml	(Cat. No. AIB-30110)
<b>Ready-to-use:</b>	6 ml	(Cat. No. AIB-30108)

#### Dilution of primary antibody

Dilution of Nordic Biosite' concentrated antibody depends on the detection system used. The final working dilution must always be determined by the user. The elaboration of staining protocol should be done by an experienced specialist. For Nordic Biosite' recommendations see chapter 'Staining procedure'.

Explanations of the symbols on the product label:

	Catalog Number Bestellnummer Reference du catalogue		Batch Code Chargenbezeichnung Code du lot	 Manufacturer  Nordic BioSite AB Propellervägen 4A S-183 62 Täby Sweden Tel: +46 (0)8 5444 33 40 Fax: +46 (0)8 756 94 90 info@nordicbiosite.com www.nordicbiosite.com
	Use By Verwendbar bis Utiliser jusqu'à		In Vitro Diagnostic Medical Device In vitro Diagnostikum Dispositif médical de diagnostic in vitro	
	Consult Instructions for use Gebrauchsanweisung beachten Consulter les instructions d'utilisation		Temperature Limitation Lagerungstemperatur Limites de température	

## Storage and handling

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

Dilutions of the concentrated antibody should be done with a suitable antibody dilution buffer (e.g. BCB-20005/BCB-20006 from Nordic Biosite). The diluted antibody should be stored at 2-8°C after use. The stability of this working solution depends on various parameters and has to be confirmed by appropriate controls.

The antibody 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 Nordic Biosite's 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.

Sodium azide (NaN<sub>3</sub>), used for stabilisation, is not considered hazardous material in the concentration used.

Reaction of sodium azide with lead or copper in drainage pipes can result in the formation of highly explosive metallic azides. Sodium azide should be discarded in a large volume of running water to avoid formation of deposits. A material safety data sheet (MSDS) for the pure substance 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.

Parameters	Nordic BioSite's recommendations
*Pre-treatment 20015/-20016)	Heat Induced Epitope Retrieval (for example in Citrate Buffer pH 6.0 (BCB-
*Control tissue	Helicobacter pylori infected tissue
*Working dilution	1:200-1:400 (for concentrated antibodies only)
*Incubation time	30-60 minutes

## Quality control

The recommended positive control tissue 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 quality 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.

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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, 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.

Nordic Biosite 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 Nordic Biosite be liable for any damages arising out of the use of the reagent provided.

### Performance characteristics

Nordic Biosite 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








Clevers H et al. 1988. Europ J Immunol 18:705-710  
 Campana D et al. 1987. J Immunol 138:648-665  
 Meuer SC et al. 1989. Immunol Today 10:225-228  
 Nadji M and Morales AR Ann N.Y. Acad Sci 420:134-9, 1983  
 Omata M et al. Am J Clin Pathol 73(5): 626-32, 1980

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