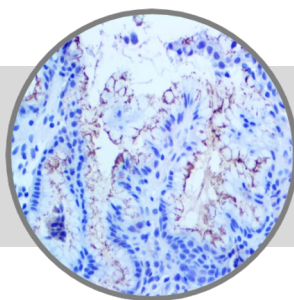


Helicobacter pylori

Clone: BSB-37

Mouse Monoclonal



ASR

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Inset: IHC of Helicobacter pylori on FFPE Stomach Tissue

Intended Use

Analyte Specific Reagent.

Analytical and performance characteristics for Helicobacter pylori antibody, clone BSB-37, are not established.

Immunogen

Purified Helicobacter pylori bacteria microdissected from FFPE infected cell lines.

Summary and Explanation

Helicobacter pylori is a helix-shaped Gram-negative bacterium about 3 µm long with a diameter of about 0.5 µm. It is microaerophilic; that is, it requires oxygen, but at lower concentration than is found in the atmosphere. It contains a hydrogenase which can be used to obtain energy by oxidizing molecular hydrogen (H₂) produced by intestinal bacteria. It produces oxidase, catalase, and urease. H. pylori has four to six lophotrichous flagella; all gastric and enterohepatic Helicobacter species are highly motile owing to flagella. H. pylori's helical shape (from which the genus name is derived) is thought to have evolved to penetrate the mucoid lining of the stomach. Strains of H. pylori that produce high levels of two proteins, vacuolating toxin A (VacA) and the cytotoxin-associated gene A (CagA), appear to cause greater tissue damage than those that produce lower levels or that lack those genes completely.

Antibody Type	Mouse Monoclonal	Clone	BSB-37
Isotype	IgG1/K	Reactivity	Paraffin, Frozen
Localization	Cell Wall	Control	Helicobacter pylori Infected Stomach Mucosa
Species Reactivity		Human	

Precautions

1. For professional users only. Results should be interpreted by a qualified medical professional.
2. This product contains <0.1% sodium azide (NaN₃) as a preservative. Ensure proper handling procedures are used with this reagent.
3. Always wear personal protective equipment such as laboratory coat, goggles and gloves when handling reagents.
4. Dispose of unused solution with copious amount of water.
5. Do not ingest reagent. If reagent is ingested, seek medical advice immediately.
6. Avoid contact with eyes. If contact occurs, flush with large quantities of water.
7. Follow safety precautions of the heating device used for epitope retrieval (TintoRetriever Pressure Cooker or similar).
8. For additional safety information refer to Safety Data Sheet for this product.
9. For complete recommendations for handling biological specimens, please refer to the CDC document, "Guidelines for Safe Work Practices in Human and Animal Medical Diagnostic Laboratories" (see References in this document).

Presentation

H pylori is a mouse monoclonal antibody derived from cell culture supernatant that is concentrated, dialyzed, filter sterilized and diluted in buffer pH 7.5, containing BSA and sodium azide as a preservative.

Catalog No.	Antibody Type	Dilution	Volume/Qty
BSB 2677	Tinto Prediluted	Ready-to-Use	3.0 mL
BSB 2678	Tinto Prediluted	Ready-to-Use	7.0 mL
BSB 2679	Tinto Prediluted	Ready-to-Use	15.0 mL
BSB 2680	Concentrated	1:25 - 1:100	0.1 mL
BSB 2681	Concentrated	1:25 - 1:100	0.5 mL
BSB 2682	Concentrated	1:25 - 1:100	1.0 mL

Control Slides Available

Catalog No.	Quantity
BSB 2683	5 slides

Storage

Store at 2-8°C

Stability

This product is stable up to the expiration date on the product label. Do not use after expiration date listed on package label. Temperature fluctuations should be avoided. Store appropriately when not in use, and avoid prolonged exposure to room temperature conditions.

Specimen Preparation

Paraffin sections: The antibody can be used on formalin-fixed paraffin-embedded (FFPE) tissue sections. Ensure tissue undergoes appropriate fixation for best results. Pre-treatment of tissues with heat-induced epitope retrieval (HIER) is recommended using Bio SB ImmunoDNA Retriever with Citrate (BSB 0020-BSB 0023), ImmunoDNA Retriever with EDTA (BSB 0030-BSB 0033) or ImmunoDNA Digestor (BSB 0108-0112). See reverse side for complete protocol. Tissue should remain hydrated via use of Bio SB Immuno/DNA Washer solutions (BSB 0029 & BSB 0042).

Frozen sections and cell preparations: The antibody can be used for labeling acetone-fixed frozen sections and acetone-fixed cell preparations.

This Antibody has been quality control tested by immunohistochemistry as follows

Quality Control Procedure

Step	ImmunoDetector AP/HRP	PolyDetector AP/HRP	PolyDetector Plus HRP
Peroxidase/AP Blocker	5 min.	5 min.	5 min.
Primary Antibody	30-60 min.	30-60 min.	30-60 min.
1st Step Detection	10 min.	30-45 min.	15 min.
2nd Step Detection	10 min.	Not Applicable	15 min.
Substrate-Chromogen	5-10 min.	5-10 min.	5-10 min.
Counterstain / Coverslip	Varies	Varies	Varies

Mounting Protocols

For detailed instructions using biodegradable permanent mounting media such as XyGreen PermaMounter (BSB 0169-0174) or organic solvent based resin such as PermaMounter (BSB 0094-0097), refer to PI0174 or PI0097.





Product Limitations

Due to inherent variability present in immunohistochemical procedures (including fixation time of tissues, dilution factor of antibody, retrieval method utilized and incubation time), optimal performance should be established through the use of positive and negative controls. Results should be interpreted by a qualified medical professional.

References

1. Brown LM. *Helicobacter pylori*: epidemiology and routes of transmission. *Epidemiol Rev.* 2000; 22 (2): 283–97.
2. Josenhans C, et al. Switching of Flagellar Motility in *Helicobacter pylori* by Reversible Length Variation of a Short Homopolymeric Sequence Repeat in *flaP*, a Gene Encoding a Basal Body Protein. *Infect Immun.* 2000; 68 (8): 4598–603.
3. Broutet N, et al. *cagA* Status and Eradication Treatment Outcome of Anti-*Helicobacter pylori* Triple Therapies in Patients with Nonulcer Dyspepsia. *J Clin Microbiol.* 2001; 39 (4): 1319–22.
4. Hatakeyama M, Higashi H. *Helicobacter pylori* CagA: A new paradigm for bacterial carcinogenesis. *Cancer Science.* 2005; 96 (12): 835–43.
5. Kusters JG, et al. Pathogenesis of *Helicobacter pylori* Infection. *Clin Microbiol Rev.* 2006; 19 (3): 449–90.
6. Jonkers D, et al. Evaluation of immunohistochemistry for the detection of *Helicobacter pylori* in gastric mucosal biopsies. *J Infect.* 1997 Sep; 35 (2):149-54.
7. U.S. Department of Health and Human Services: Centers for Disease Control and Prevention. Guidelines for Safe Work Practices in Human and Animal Medical Diagnostic Laboratories. Supplement / Vol. 61, January 6, 2012.

Symbol Key / Légende des symboles/Erläuterung der Symbole

	Storage Temperature Limites de température Zulässiger Temperaturbereich		Manufacturer Fabricant Hersteller	REF	Catalog Number Référence du catalogue Bestellnummer
	Read Instructions for Use Consulter les instructions d'utilisation Gebrauchsanweisung beachten		Expiration Date Utiliser jusqu'à Verwendbar bis	LOT	Lot Number Code du lot Chargenbezeichnung

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