

Anti-*Helicobacter pylori* antibody, mouse monoclonal (hp-02)

Product code	64-110
Size	100 µg
Storage	-20°C
Concentration	1.0 mg/ml
Buffer	PBS ⁻ with 50% glycerol
Purity	Purified IgG fraction with protein A
Immunogen	Crude extract of <i>Helicobacter pylori</i>
Isotype	mouse IgG1κ
Reactivity	Reacts with <i>Helicobacter pylori</i> 58kDa protein, did not react with <i>Campylobacter spp.</i> and other bacteria
Validation	Specificity has been validated by western blotting
Application	Western blotting: x1/400-800 (Fig.1)
Background	<i>Helicobacter pylori</i> (<i>H. pylori</i>) is a gram-negative, spiral-shaped microaerophilic bacterium which is linked to the development of duodenal ulcers and stomach cancer. <i>H. pylori</i> strains produce important virulence factor. Motility is conferred to the bacteria by several sheathed flagella and is regarded as one of their principal virulence factors. As other bacterial virulence factors, urease, adhesin, vacuolation cytotoxin (VacA, 95kDa), pathogenicity island (CagA and cagPAI, 120-150kDa), heat-shock protein (HSP, 60kDa) etc. have been reported. The VacA (95 kDa) polypeptides are proteolytically cleaved into 34kDa amino terminal and 58kDa carboxy-terminal fragment.
Data Link	UniProtKB: Q9ZKW5 · VACA_HELP1
Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.	

Data Images: 64-110 Anti-*Helicobacter pylori* antibody, mouse monoclonal (hp-02)

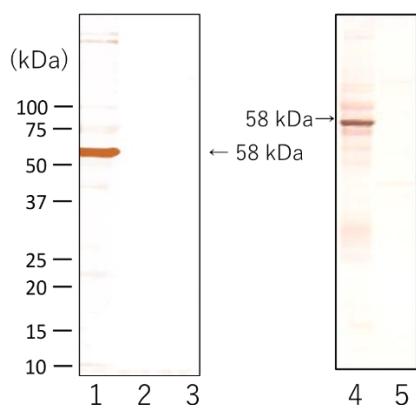


Fig.1. Western blot (WB) of hp-02 antibody.

The lysates of proteins, (1) crude extract of *H. pylori* (isolated strains), (2) crude extract of *Campylobacter jejuni*, (3) crude extract of *Campylobacter coli*, (4) crude extract of *H. pylori* (JCM12093) and (5) human heat shock protein (HSP60), were applied to SDS-PAGE and WB. The antibody was used at 1/400 dilution. The HRP-conjugated goat anti-mouse IgG was used at 1/4,000 as the second and visualized by DAB (3,3'-Diaminobenzidine).

Table 1. Reactivities of hp-02 antibody

	ELISA	WB (kDa)
<i>Helicobacter pylori</i> (JCM12093)	+	58
<i>Helicobacter pylori</i> (England strain)	+	58
<i>Helicobacter pylori</i> (MR31 strain)	+	58
<i>Helicobacter pylori</i> (RD26 strain)	+	58
<i>Campylobacter jejuni</i>	—	—
<i>Campylobacter coli</i>	—	—
<i>Campylobacter fetus</i>	—	—
<i>Escherichia coli</i>	—	—
Human heat shock protein(HSP60)	—	—

The hp-02 reacted with a standard strain of *H. pylori* (JCM12093) and isolated strains, such as England strain, USA strains (MR31 and RD26 strains). However, hp-02 did not react with other food poisoning bacteria such as *Campylobacter jejuni*, *Campylobacter coli* and enterotoxigenic *Escherichia coli* (ETEC) and did not react with human heat shock protein (molecular weight of 60 kDa).

Related product:

64-108 Anti-*Helicobacter pylori* flagellin antibody, mouse monoclonal (hp-01)

Reference: There has been no publication using this antibody.