Helicobacter pylori

Product information

Background
Helicobacter pylori is nowadays recognised as one of the most common human pathogens, and has been recently defined as a class 1 carcinogen. It has an ability to colonise gastric mucosa, where it causes chronic gastritis and is a major cause for duodenal and sometimes gastric ulcers.

Immunogen
Whole cells of Helicobacter pylori, standard laboratory strain (17-1 e.g. CCUG 17875) emulsified with an adjuvant.

Host
Chicken

Clonality
Polyclonal

Purity
Total IgY

Format
Liquid in PBS pH 8.0, 0.02% sodium azide

Quantity
200 µl

Storage
Store at 4°C; make aliquots to avoid working with a stock. Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from liquid material adhering to the cap or sides of the tubes.

Tested applications
ELISA (ELISA), Immunolocalization (IL), Western blot (WB)

Additional information
IgY concentration is 23.5 mg/ml

Application information

Recommended dilution
1 : 10 000-1 : 20 000 (ELISA), 1 : 500 (IL), 1 : 5000-1 : 20 000 (WB)

Confirmed reactivity
Helicobacter pylori

Additional information
Western blot has been done using whole extracts of Helicobacter pylori. Antibody recognised several low and high molecular weight H. pylori proteins. Some of them are from the surface of bacteria.

Selected references


Application example

Panel 1: secondary antibody only
A. - Hoechst, B. - anti-chicken Alexa 568, dilution 1: 500, C. - Hoechst and anti-chicken Alexa 568

Panel 2: primary and secondary antibody detection
A. - Hoechst, B. - chicken anti-Helicobacter pylori at 1: 200 and anti-chicken Alexa 568, dilution 1: 500, C. - Hoechst, chicken anti-Helicobacter pylori at 1: 200 and anti-chicken Alexa 568
Protocol Immunofluorescence for Helicobacter pylori cells:

Harvest Helicobacter pylori from blood agar plates in 0.9% NaCl. Put onto coverslips in 24-well plate and spin down at 1500g for 5min. Fix with 4% Paraformaldehyde in PBS. Wash with PBS 5 min. Triton X-100 0.2% in PBS. Wash with PBS.

Block with 4% foetal calf serum in PBS.

Chicken anti-Helicobacter pylori primary antibody (Agrisera cat# AS01 020) diluted in 4% FSC in PBS 1 hour at room temp. Wash with PBS.

Goat anti-Chicken Alexa fluor 568 (Invitrogen cat# A11041) in PBS. 30 min at room temperature. Wash with PBS and water.

3 min Hoechst 1μg/ml in water.

Wash in water.

Mount.

Courtesy Dr. Phebe Verbrugghe, QEII Medical Centre, Australia.