

Product Specification Sheet

Helicobacter pylori outer-membrane proteins A (OmpA) IgG Antibodies

Cat # OMPA11-M,

Mouse Monoclonal Anti- Helicobacter pylori OmpA IgG

SIZE: 100 ul

The OmpA protein is one of the main outer-membrane proteins of a large array of Gram-negative bacteria such as *A. salmonicida*, *Shigella dysenteriae* and *E. coli*. OmpA's major physiological functions include maintenance of the structural integrity and morphology of the cells and porin activity, as well as a role in conjugation and bacteriophage binding. Achromogenic atypical *Aeromonas salmonicida* is the causative agent of goldfish ulcer disease. Virulence of this bacterium is associated with the production of a paracrystalline outer membrane A-layer protein.

Helicobacter pylori, a Gram-negative, microaerophilic bacterium that populates in the stomach, predominantly at the antrum. *Helicobacter pylori* causes a chronic inflammation of the mucoid lining of stomach and is highly related to the growth of duodenal and gastric ulcers and stomach cancer. Over 50% of the world's population harbor *H. pylori* in their upper gastrointestinal tract, infection is more prevalent in developing countries. Thus far, no ideal target *H. pylori* antigen has been developed for the diagnostic purpose. 23 kDa *H. pylori* outer membrane protein was identified with a good sensitivity and coverage in the diagnosis of *H. pylori* infection.

Source of Antigen and Antibodies

Antigen	Recombinant Purified <i>Helicobacter pylori</i> OmpA (~23 kda)
Ab Host/type	Balb/c mouse. Splenocytes were fused with Sp2/0 cells. Resulting clone (OMAP11; IgG1k), selected for reactivity with XRCC1, was expanded into mice as ascites. Antibody has been purified by Protein A/G column chromatography.
2-Ab	Goat Anti-mouse IgG-HRP conjugate Cat # 40320 (AP, biotin, FITC conjugates also available)
-ve control IgG	Cat # 20008-1, Mouse (non-immune) Serum IgG, purified, suitable for ELISA, Western, IHC as -ve control Or mouse IgG1 isotype control (negative)

Isotype Controls

20102-101	Mouse IgG1 isotype control, purified
20102-101-1	Mouse IgG1 isotype control, purified
20102-101-APC	Mouse IgG1-APC conjugate (isotype control)
20102-101-B	Mouse IgG1-Biotin conjugate (isotype control)
20102-101-F	Mouse IgG1-FITC conjugate (isotype control)
20102-101-FP	Mouse IgG1-FITC-PE conjugate (isotype control)
20102-101-HP	Mouse IgG1-HRP conjugate (isotype control)
20102-101-PC5	Mouse IgG1-PE-Cy5 conjugate (isotype control)
20102-101-PE	Mouse IgG1-PE conjugate (isotype control)

Form & Storage of Antibodies/Peptide Control

Affinity pure IgG

100 ug/100ul solution lyophilized powder
Supplied in **Buffer:** PBS+0.1% BSA+0.05% azide
Reconstitute powder in PBS at 1mg/ml

Storage

Short-term: unopened, undiluted liquid vials at -200C and powder at 4oC or -20oC..

Long-term: at -20C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

Stability: 6-12 months at -20oC or below.

Shipping: 4oC for solutions and room temp for powder.

Recommended Usage

Western Blotting: An initial concn. of 1-5 ug/ml is recommended for Western. Users must optimize antibody dilution depending upon the nature of samples and other technical conditions. The antibody recognizes >23 kDa *H. pylori*, recombinant Omap protein or 19-kkda native protein.

Histochemistry & Immunofluorescence: Not tested. An initial concn. 2-20 ug/ml is recommended for IHC.

Specificity & Cross-reactivity

Reacts with the 19kDa (OMP) of *H. pylori*. Non-reactive in ELISA with *C. jejuni*, *E. coli* (mix), *Shigella* (mix), *P. aeruginosa*, *Yersinia* and *Citrobacter* Antibody cross-reactivity in various species has not been studied.

General References: Smith SG (2007) FEMS microbial. Let. 273, 1-11; Qu J (2009) Biochem. 48, 4926-4236; Kleinschmidt JH (2003) Cell . Mol. Lefe. Sci. 60, 1547-1558; .

***This product is for In vitro research use only.**

Related material available from ADI

MOMP11-M Anti-Chlamydia trachomatis Major Outer Membrane Protein (MOMP) IgG

MOMP12-A Anti-Chlamydia trachomatis Major Outer Membrane Protein (MOMP) IgG

OMPA11-M Anti-Bacterial Outer Membrane Protein-A (Omp-A, 19-Kda), *H. pylori*, IgG

RP-1616 Recombinant (*E. coli*) Bacterial Outer Membrane Protein-A (Omp-A), *H. pylori*

RP-1617 Recombinant (*E. coli*, his-tag) Chlamydia trachomatis Major Outer Membrane Protein (MOMP)

RP-981 Recombinant Bacterial Outer Membrane Protein-A (Omp-A)

OMPA11-M 120316A