Helicobacter pylori OMP (6621): sc-58137



The Power to Question

BACKGROUND

Helicobacter pylori is a bacterium that infects the mucus lining of mammalian stomach and duodenum and may cause peptic ulcers, gastritis and duodenitis. It is estimated that about 66% of the world population are infected by the bacterium, though most do not experience symptoms. This spiral-shaped Gramnegative bacterium is unique in that it can thrive in the highly acidic environment of the stomach. Helicobacter pylori can exist in a number of locations: in the mucus; attached to epithelial cells; or inside of vacuoles in epithelial cells, where it produces adhesins that bind to membrane-associated lipids and carbohydrates to help its adhesion to epithelial cells. Helicobacter pylori contains a hydrogenase enzyme and obtains energy by oxidizing molecular hydrogen produced by other intestinal bacteria. It also excretes urease in order to convert urea into ammonia and bicarbonate which neutralizes the acidic environment of the stomach. Helicobacter pylori OMPs (Outer membrane proteins) are involved in Helicobacter pylori adhesion and can cause signal transduction events in host cells.

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RESEARCH USE

For research use only, not for use in diagnostic procedures.

SOURCE

Helicobacter pylori OMP (6621) is a mouse monoclonal antibody raised against *Helicobacter pylori*.

PRODUCT

Each vial contains 100 $\mu g \; lg G_1$ in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Helicobacter pylori OMP (6621) is recommended for detection of outer membrane protein (OMP) of *Helicobacter pylori* origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Molecular Weight of Helicobacter pylori OMP precursor: 140 kDa.

Molecular Weight of mature Helicobacter pylori OMP: 95 kDa.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

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