

Helicobacter pylori CagA protein Monoclonal Antibody

ORDERING INFORMATION

Catalog no.	Clone No.	MAB Subtype	Size
18932	HP1811	IgG	200ug

Format: Protein A-purified antibody in PBS, pH 7.4, 0.09% sodium azide.

BACKGROUND

Helicobacter pylori, first associated with peptic ulcer disease, is now also associated with gastric cancer. Investigations by Backert and Blaser of *H.pylori* genes and antigens identified the 128kDa CagA protein (product of the *cagA* gene) as a protein associated with an increased risk of gastric cancer. During infection, CagA localizes to the host plasma membrane and undergoes tyrosine phosphorylation. Subsequently, the various forms of CagA interact with >25 host signaling factors promoting proinflammatory, proliferative, cell cycle-related, and antiapoptotic gene alterations. Alterations in cellular growth and of epithelial integrity by CagA can trigger precancerous alterations in the stomach, which is one explanation for the high frequency of gastric cancer in patients carrying CagA⁺*H. pylori*.

SPECIFICATION SUMMARY

Antigen: Recombinant fragments of *H. pylori* CagA protein.

Host Species: Mouse

GenBank Accession no.: FJ428215.1

Specificity: This antibody recognizes an epitope between Asp562 and Gln795 of *H. pylori* Cag A protein.

... 541 lvgkalnfnk avadakntgn ydevkkaqkd lekslkkreh lekevaksfe sksdnknkme
601 aksqansqkg eifalinkea nrdaraiaca qnlkgikrel sdkleninkn lkdfsksfde
661 fkngknkdfs kaeetlkalk dsvkdldinp ewiskvenln aalnekngk nkdfskvtqa
721 ksdlensikd viinqkvtdk vdnlnqavsv akatgdfsrv eqaladlkns skeqlaqqaq
781 knedfntgkn falyqsvkng vngtlvgngl skaattlsk nfsdikkeln aklgnfnnnn ...

APPLICATIONS

ELISA, Immunoblotting: Endusers should determine optimal antibody concentrations relative to their preparations of *H. pylori*.

DILUTION INSTRUCTIONS

Dilute in PBS or medium that is compatible with the assay system.

STORAGE AND STABILITY

Store product at 4°C.

For in vitro investigational use only. Not intended for use in therapeutic or diagnostic procedures.