

CagA recombinant protein

Helicobacter pylori CagA antigen

CATALOG # AAA14645	HOST E Coli	APPLICATIONS Lateral Flow, ELISA, Western Blot
------------------------------	-----------------------	--

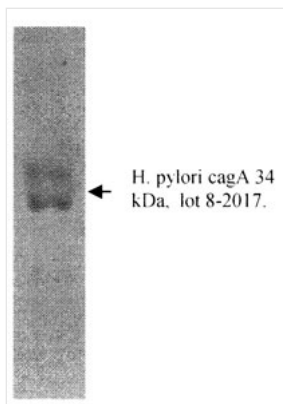
PRODUCT SYNONYMS

CagA; Helicobacter pylori CagA antigen; CagA recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	>95% pure (10% SDS-PAGE, Coomassie blue stain)
Form/Format	Purified, Liquid; PBS with 50mM arginine
Concentration	1.17 mg/ml (lot 08/2017) (varies by lot)
Applicable Applications for CagA recombinant protein	LF (Lateral Flow), ELISA, WB (Western Blot)
Application Notes	Centrifuge before opening to ensure complete recovery of vial contents,
Preparation and Storage	Store in 4°C for short time only, aliquot to avoid repeated freezing and thawing , Store at -20°C.

IMAGES



WB (Western Blot)

ADDITIONAL INFORMATION

Related Product Information for CagA recombinant protein	Helicobacter pylori is a Gram negative, micro-aerophilic spiral bacterium that colonizes in the human stomach and induces gastric mucosal inflammations that are linked to severe gastritis-associated diseases including atrophic gastritis, peptic ulcer and gastric cancer. H. pylori is detected in half of the world's population. In 1994, the World Health Organization and International Agency for Research on Cancer categorized H. pylori infection as a group I carcinogens. An important virulence factor of H. pylori is a secreted toxin known as Cytotoxin-associated gene A (CagA) which is located at the end of an approximately 40-kd nucleotides cluster of genes called cag pathogenicity island (PAI). Cag PAI encodes a type-IV secretion system and transfers CagA protein into the intracellular region of gastric epithelial cell, inducing cellular hyper proliferation, apoptosis and leading to failure of gastric epithelial cell in maintaining its normal cytoskeletal structure, Also increases the secretion of cytokines such as tumor necrosis factor (TNF) and interleukin (IL) 1, 6 and 8 by the epithelial cells. The IL-8 leads to intense inflammatory responses and stimulates the production of oxygen free radicals that could cause DNA damage to adjacent cells. Accumulation of oxidative DNA damage could lead to genetic modifications of gastric epithelial cells which are carcinogenic. Recombinant cagA protein is a 34kDa protein with isoelectric point at 8.63. This protein can be used for ELISA, Western blot and lateral flow immunoassay to detect specific antibody infected by H. pylori.
Product Categories/Family for CagA recombinant protein	Helicobacter pylori

NCBI AND UNIPROT INFORMATION

Molecular Weight	34kDa
------------------	-------

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/caga-recombinant-protein-e-coli-lf-lateral-flow-elisa-wb-western-blot/14645>