

Human Bordetella pertussis toxin IgG ELISA Kit | IgG elisa kit

Bordetella pertussis toxin IgG ELISA

CATALOG #
AAA72573

REACTIVITY
Human

PRODUCT SYNONYMS

Bordetella pertussis toxin IgG; Bordetella pertussis toxin IgG ELISA; IgG elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The Bordetella pertussis toxin IgA and IgG ELISA was verified in an internal study. The sensitivity and specificity in both cases exceeded 99%.
Samples	Serum or plasma directed against Bordetella pertussis toxin
Preparation and Storage	Store at 2-8 degree C

ADDITIONAL INFORMATION

Related Product Information for IgG elisa kit

Background: Bordetella pertussis belongs to the genus of Bordetella. It is a small coccoid, gram negative bacillus, which occurs world-wide. The attachment of B. pertussis and B. parapertussis to the ciliated cells in the mucosa of the human respiratory tract is mediated by adhesins. An important adhesion protein and an equally important immunogen is the so-called filamentous haemagglutinin (FHA). Colonisation of the respiratory tract and establishment of infection are facilitated by the synergistic action of several virulence factors. An important virulence factor is pertussis toxin (PT) which mediates multiple biological effects such as leukocytosis, lymphocytosis, mitogenicity, and increased sensitivity to histamine.

Principle of the Assay: This ELISA (Enzyme Linked Immunosorbent Assay) is an immunoassay, which is particularly suited to the determination of antibodies in various kinds of samples. The reaction is based on the specific interaction of antibodies with their corresponding antigen. The test strips of the microtiter plate are coated with specific antigens of the pathogen of interest. If antibodies in the sample are present, they bind to the fixed antigen. A secondary antibody, which has been conjugated with the enzyme alkaline phosphatase, detects and binds to the immune complex. The colourless substrate p-nitrophenylphosphate is then converted into the coloured product p-nitrophenol. The signal intensity of this reaction product is proportional to the concentration of the analyte in the sample and is measured photometrically.

Intended Uses: The ELISA Bordetella pertussis toxin IgA and IgG tests are qualitative immunoassays for the demonstration of human antibodies in serum or plasma directed against Bordetella pertussis toxin. These assays can be used to demonstrate contact with the pathogen and are recommended to be used in combination with the Bordetella pertussis IgA, IgG, and IgM ELISA tests (Codes MBS490254, MBS490256, MBS490258) in various kinds of samples.

Product Categories/Family for IgG elisa kit

Infectious Disease; Research Assays; Assay Categories

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.