

ELISA kit for the detection of Influenza B IgM in the research laboratory

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55R-IB79255

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ELISA kit for the detection of Influenza B IgM in the research laboratory

More information

Name:	ELISA kit for the detection of Influenza B IgM in the research laboratory
Product group:	Kits
Product Number:	ABCA0131601
Price	Please Enquire
Quantity:	96 Test(s)
Type of Kit:	ELISA
Non Confirming product:	replace the product at no cost.



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Description:

The influenza infection is an acute feverish virus infection, which principally leads to an illness of the respiratory tract and appears as an epidemic or pandemic. The infection mostly results from a droplet infection. The virus spreads from the mucous membrane of the upper respiratory to the whole bronchial tract. There the virus and its toxin can lead to a serious inflammation of the bronchial mucosa and a damage of the vessels. After an incubation time of 1 to 3 days the symptoms appear suddenly: Followed by a fast increase of temperature, often accompanied by shivering, the catarrhal leading symptom appears, which contribute to the clinical course beside painful dry cough, tracheitis, laryngitis and frequently a rhinitis and conjunctivitis. The Influenza viruses form a virus group with principally similar morphological, chemical and biological features. The types A, B and C were defined, from which many other variants are known. The distinction of the types will be possible by the different antigenicity of their nucleoproteins, which are coated by a matrix protein with type-

specific antigenicity, too. However, both internal antigens are of less importance for the immunity. The essential antigens are the hemagglutinin and the neuraminidase. Both are surface antigens and subject to a permanent change of their antigenicity, which is called drift or shift. The appearance of permanent new Influenza epidemics and pandemics are particularly facilitated by an antigen variability, because the new drift or shift variants infect a population which is only partly immune or in an extreme case completely susceptible to the disease. The determination of the Influenza type (A, B, and C) gives both the clinician and epidemiologist important indications for further actions. Thus Influenza B often leads to a serious clinical course and an epidemic spread of the virus. Similarly, during an Influenza A epidemic, the epidemiological importance and derived measures for the protection of the individual and population primarily stand in the foreground together with the severity of the clinical symptoms.

Application	
Applications:	ELISA
Application notes:	Optimal conditions to be determined by end user
Research area:	Infectious Diseases

Components				
Component	Concentration	Description	Volume	Cap Color
Notes		<p>This Influenza B IgM antibody test kit is based on the principle of the enzyme immunoassay (EIA). Influenza B antigen is bound on the surface of the microtiter strips. Diluted patient serum or readytouse standards are pipetted into the wells of the microtiter plate. A binding between the IgM antibodies of the serum and the immobilized Influenza B antigen takes place. After a one hour incubation at room temperature, the plate is rinsed with diluted wash solution, in order to remove unbound material. Then readytouse antihumanIgM peroxidase conjugate is added and incubated for 30 minutes. After a further washing step, the substrate (TMB) solution is pipetted and incubated for 20 minutes, inducing the development of a blue dye in the wells. The color development is terminated by the addition of a stop solution, which changes the color from blue to yellow. The resulting dye is measured spectrophotometrically at the wavelength of 450 nm. The concentration of the IgM antibodies is directly proportional to the intensity of the color. NOTE that samples containing hyperimmune levels of antihuman IgG antibodies may cause false positive results in this assay. Any patient samples testing positive should be prediluted with IgG adsorbent and retested to confirm elevated levels of IgM.</p>		

Product Information	
Storage:	Store at 2-8 deg C

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