

Human Mycoplasma pneumoniae IgG ELISA Kit | IgG elisa kit

Recombinant Mycoplasma pneumoniae IgG

CATALOG # AAA72581	REACTIVITY Human	APPLICATIONS ELISA
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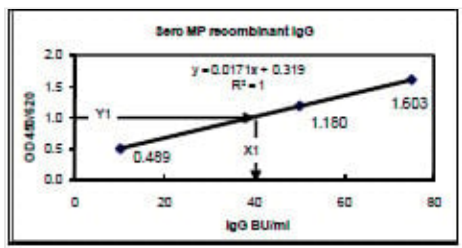
PRODUCT SYNONYMS

Mycoplasma pneumoniae IgG; Recombinant Mycoplasma pneumoniae IgG; RECOMBINANT MYCOPLASMA PNEUMONIAE IGG (SEROMP); IgG elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Samples	Human serum
Applicable Applications for IgG elisa kit	ELISA
Preparation and Storage	Store at 2-8 degree C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IgG elisa kit

Intended Uses: SeroMP™ Recombinant IgG kit is a semi-quantitative Enzyme Linked Immunosorbent assay (ELISA) for the determination of species specific IgG antibodies to Mycoplasma pneumoniae in human serum. The Savyon® SeroMPTM Recombinant IgG is used as an aid in the identification of Mycoplasma pneumoniae infection. The test also enables the identification of current infection by determining the rise of IgG antibodies in paired sera taken 2-4 weeks apart.

Background/Introduction: M.pneumoniae is a common cause of community-acquired pneumonia, often characterized by gradual onset of headache, fever, malaise and, most typically, dry cough. M.pneumoniae is common in all age groups, however, it is most common in the first two decades of life and is rare in children under the age of four. It has been reported as the cause of up to 30% of all pneumonia cases (2). M.pneumoniae has also been associated with nonrespiratory diseases as meningitis, encephalitis, pancreatitis, sensorineural hearing loss, and acute brainstem syndrome (5). Due to its common occurrence, one should consider M.pneumoniae in all cases of pneumonia, but being the same symptoms for different agents, additional test tools, such as serological tests, are required (3). The ELISA technique is sensitive, specific and enables a differential determination of specific IgG, IgA and IgM antibodies (6). In respect to identification and treatment, the most prominent structural feature of MP is the lack of a cell wall. It has been shown that surface-exposed polypeptides elicit an immunogenic response, in particular those that are involved in the attachment organelle of MP. This attachment organelle is composed of a complex of polypeptides, in which P1 Cytoadhesin Protein has a major role. (1; 4; 10) Due to its high immunogenicity P1 is a paradigm for utilizing a definitive antigen in serology-based test systems, attempting to improve various parameters of assay performance. A common way to improve test performances by using highly immunogenic polypeptides like the P1 is incorporating these polypeptides in the tests as recombinant antigens. Indeed, several polypeptides have been identified in the literature as good candidates for this purpose. (9) M.pneumoniae specific IgM antibodies rise early after onset of the disease, reach peak levels in one to four weeks, then decline to testably insignificant levels within a few months (7). Due to the early appearance and relatively short lifetime of IgM antibodies, their detection allows the identification of acute infection using a single serum sample. Young patients tend to have higher IgM levels than adults (8). IgG levels rise slower than IgM, but remain elevated much longer, so a significant increase in two consecutive samples taken at least 2 weeks apart, may indicate current infection or re-infection even in the absence of IgM. IgA antibodies are seen at higher levels in elderly patients (7) and may be more useful than IgM for the identification of current infection in adults (8). Savyon® tests Ltd. has developed semi-quantitative kits utilising recombinant antigens in IgG, IgA ELISA tests and a qualitative kit utilising mixture of recombinant and native antigen in the IgM ELISA test which enable to follow the change of antibody levels in human sera. The SeroMP™ Recombinant IgG, IgA and IgM tests enable early and accurate detection of M. pneumoniae infection.

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.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/mycoplasma-pneumoniae-igg/72581>