

Human Epstein-Barr Virus (EBNA-1) IgM ELISA Kit | EBNA-1 elisa kit

Epstein-Barr Virus (EBNA-1) IgM ELISA

CATALOG #
AAA72698

REACTIVITY
Human

PRODUCT SYNONYMS

Epstein-Barr Virus (EBNA-1) IgM; Epstein-Barr Virus (EBNA-1) IgM ELISA; EBNA-1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The specificity is defined as the probability of the assay of scoring negative in the absence of the specific analyte. (Detected by method comparison with DIA.PRO EBV-EBNA-1 IgM ELISA, with three lots of ELISA. 91 samples, therefrom 79 negative samples are assayed). It is 96.34% for all three production lots.
Assay Type	Competitive
Samples	Human serum or -plasma
Detection Range	0.69 - 60 U/mL
Intra-assay Precision	The intra-assay (within-run) precision of the EBV-EBNA-1 IgM ELISA was de-termined by 20 x measurements of 12 serum samples covering the whole measuring range.
Inter-assay Precision	The inter-assay variation of the EBV-EBNA-1 IgM ELISA was determined with 3 samples with 2 production kits in 10 independent runs with 2 replicates per run.
Preparation and Storage	Store at 2-8 degree C

ADDITIONAL INFORMATION

Related Product Information for EBNA-1 elisa kit

Principle of the Assay: The EBV-EBNA-1 IgM ELISA Kit is a solid phase enzyme-linked immunosorbent assay (ELISA). Samples are diluted with Sample Diluent and additionally incubated with IgG-RF-Sorbent, containing hyper-immune anti-human IgG-class antibody to eliminate competitive inhibition from specific IgG and to remove rheumatoid factors. This pretreatment avoids false negative or false positive results. Microtiter wells as a solid phase are coated with recombinant EBV nuclear-1 antigen. Diluted samples and ready-for-use controls are pipetted into these wells. During incubation EBNA-1- specific antibodies of positive samples and controls are bound to the immobilized antigens. After a washing step to remove unbound sample and control material horseradish peroxidase conjugated anti-human IgM antibodies are dispensed into the wells. During a second incubation this anti IgM conjugate binds specifically to IgM antibodies resulting in the formation of enzyme-linked immune complexes. After a second washing step to remove unbound conjugate the immune complexes formed (in case of positive results) are detected by incubation with TMB substrate and development of a blue color. The blue color turns into yellow by stopping the enzymatic indicator reaction with sulfuric acid. The intensity of this color is directly proportional to the amount of EBNA-1-specific IgM antibody in the sample. Absorbance at 450 nm is read using an ELISA microtiter plate reader.

Intended Uses: The EBV-EBNA-1 IgM ELISA provides materials for the determination of IgM-class antibodies to Epstein-Barr virus nuclear-1 antigen (EBV-EBNA-1) in human serum or -plasma. For research use only - Not for use in test procedures.

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.