

Epstein-Barr Virus

recomWell EBV EBNA IgG

recomWell EBV VCA IgG

recomWell EBV EA IgG

recomWell EBV IgM

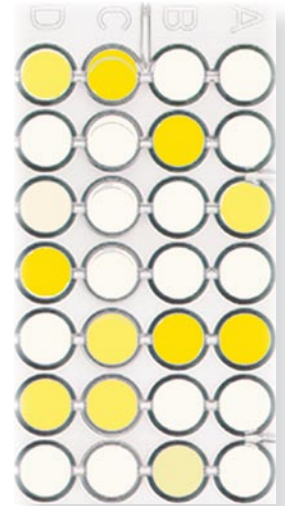
Enzyme immunoassay with antigens produced by recombinant techniques for the detection of IgG and IgM antibodies against Epstein-Barr Virus (EBV)

The Epstein-Barr virus, an ubiquitously occurring herpes virus, can cause the symptoms of infectious mononucleosis (Pfeiffer's disease) on primary infection. Moreover, as a result of the lifelong persistence of this pathogen, reactivations can occur, especially in immuno-incompetent persons.

Due to the diversity of symptoms caused by EBV infection and their correspondence with the symptoms of other diseases, a secure EBV diagnosis is of great relevance for differential diagnostics. One of the main tasks in routine diagnosis is therefore the serological differentiation of a primary infection from a past infection and the exclusion of an EBV infection.

The *recomWell* EBV ELISA test systems are highly sensitive screening tests for detection of Epstein-Barr virus antibodies (IgG, IgM). Due to genetical engineering highly specific and characteristic EBV proteins can be used. A classification into the different stages of infection (primary infection, past infection) is possible due to the time-shifted appearance of antibodies against different EBV antigens.

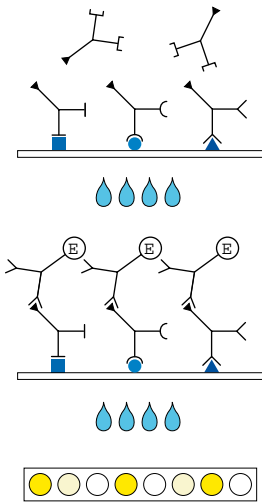
Besides the detection of serum antibodies, the *recomWell* EBV VCA IgG test is suited for the determination of antibodies from CSF. By this the EBV specific antibody index from CSF and serum can be calculated



Product Advantages

- **Reliable EBV screening**
 - **Safe detection of past infections** with the *recomWell* EBV EBNA IgG due to the very high specificity of the diagnostic EBV key antigen EBNA-1
 - **Detection of primary EBV infections already in the early phase** due to the optimised antigen composition of the *recomWell* EBV VCA IgG and *recomWell* EBV IgM test systems
 - **No Rheumatoid factor treatment** in the *recomWell* IgM test system necessary
- Recombinant antigens
 - High Sensitivity and specificity
 - Excellent discrimination between negative and positive results
- Identical procedure for IgG and IgM determination
- Easy to quantify
- Standardised CSF-serum analysis for *recomWell* EBV VCA IgG available
- Easy test procedure; automation possible
- Test procedure and reagents identical in all *recomWell* ELISA - reagents exchangeable
- Break-a-parts: Single sample examination possible
- CE label: The *recomWell* EBV test systems meet the high standard of the EC directive 98/79/EC on in vitro diagnostic medical devices

Test Principle and Procedure



Indirect sandwich test.

Recombinant antigens are bound to the solid phase.

1st Incubation Add patient samples diluted 1:101 (sample 10 µl of serum or plasma), incubate for **1 h at 37 °C**.

wash 4 times

2nd Incubation Add peroxidase conjugated anti-human IgG or IgM antibodies, incubate **30 min at 37 °C**.

wash 4 times

Color reaction Add ready-to-use TMB solution and incubate **30 min at room temperature**. Stop the substrate solution with H_3PO_4 and measure the extinction at 450 nm.

Evaluation

Diagnostic sensitivity and diagnostic specificity

	recomWell EBV EBNA IgG		recomWell EBV VCA IgG		recomWell EBV EA IgG		recomWell EBV IgM	
	Sensitivity	Specificity	Sensitivity	Specificity	Sensitivity	Specificity	Sensitivity	Specificity
EBV sero negative	-	100% (167/167)	-	99.4% (166/167)	-	98.8% (165/167)	-	100% (167/167)
Primary EBV Infection	-	100% (147/147)	98.6% (145/147)	-	94.0% (125/133) ¹	-	91.7% (121/132) ²	-
Past EBV Infektion	99.4% (516/519) ³	-	99.8% (607/608)	-	-	-	-	-

¹ Population with an anti-EBV-EA-IgG antibody response.

² Population with an anti-EBV-IgM antibody response.

³ Population with an anti-EBV-EBNA IgG antibody response.

Article No.

7104	recomWell EBV EBNA IgG Reagents for 96 determinations
7204	recomWell EBV VCA IgG Reagents for 96 determinations
7004	recomWell EBV EA IgG Reagents for 96 determinations
7205	recomWell EBV IgM Reagents for 96 determinations

Storage

At +2°C - +8°C