

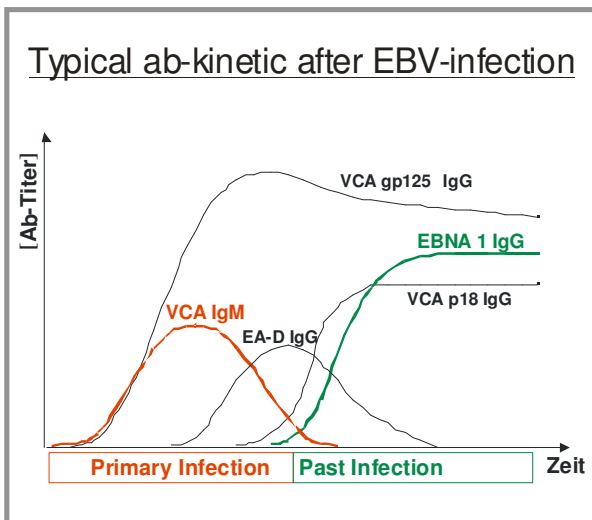
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EPSTEIN BARR VIRUS ELISA

EBV infections occur world-wide with a prevalence of 90%. The pathogenetic basis of the clinical picture of the infectious mononucleosis is founded on the infection of the B-lymphocytes with the virus and the thereof resulting polyclonal stimulation of these cells as well as on the responses of the cellular immune protection against the polyclonal stimulation. The EBV-infection with its possibly occurring additional complications is a challenge for the differential diagnosis and leads to the necessity of a reliable and serious EBV-serology.

To proceed a reliable diagnostic we offer the following ELISAs:

▼ EBV IgG/IgM (Screening) EC102.00



- ▼ EBV VCA IgM ^{with diagnostic factor} EC203M00
- ▼ EBV Early IgG EC202.00
- ▼ EBV EBNA1 IgG ^{with diagnostic factor} EC204.00
- ▼ EBV VCA IgG EC205G00

Available in the well known Virotech System:

- ▼ Identical procedure
- ▼ Ready to use reagents
- ▼ Color-coded plates
- ▼ General conjugate
- ▼ Overall components

F_EC102_20130619-10e

Use of the Diagnostic Factor

An additional tool of our EBV specific ELISA tests is the diagnostic factor – it is of significant importance to clarify unclear cases that sometimes might occur.

The Diagnostic Factor

For a clear diagnosis:
Primary Infection
Past Infection

For the unclear cases:
 EBNA1-IgG and VCA-IgM positive!

As in some cases VCA IgM-antibodies may still persist while an EBNA1 IgG-immune response already exists, the diagnosis is not completely clear. For those unclear cases, both highspecific marker are positive, means EBNA1 IgG for a past infection and VCA IgM for a primary infection, the diagnostic factor assists in obtaining the correct diagnosis.

EBNA 1 IgG and VCA IgM positive results:

VE-value of **EBNA 1 IgG** $\geq 1,5x$ VE-value of **VCA IgM** => past infection

VE-values of **VCA IgM** $\geq 1,5x$ VE-value of **EBNA 1 IgG** => primary infection

Routine Sera as Example:

Serum No.	VCA IgM		EBNA1 IgG		Secure diagnosis due to diagnostic factor
	Virotech units	Interpretation	Virotech units	Interpretation	
1	37,5 VE	positive	11,7 VE	positive	primary infection
2	25,0 VE	positive	14,2 VE	positive	primary infection
3	36,7 VE	positive	65,6 VE	positive	past infection
4	20,7 VE	positive	78,9 VE	positive	past infection
5	19,1 VE	positive	54,8 VE	positive	past infection
6	21,1 VE	positive	67,0 VE	positive	past infection