*Bio-Rad Laboratories*
*Improving lives with every test.*

# EBV

## EB NA IgG EIA and EB VCA IgG and IgM EIAs

INFECTIOUS DISEASE TESTING

**Epstein-Barr Virus (EBV) is a common human pathogen, that infects the majority of individuals sometime during their lifetime.**

Since its discovery in 1964, EBV has been etiologically implicated in an increasing number of human diseases, such as Infectious Mononucleosis (IM). EBV is classified as a member of the herpes virus family. All herpes viruses share the ability to establish a latent infection in their hosts.

The EBV laboratory diagnosis is generally confirmed by a positive heterophile antibody test result. Severity of the disease however, is not indicated by the heterophile antibody test. Heterophile negative IM occurs in 10–20 percent of adults and in an even greater percentage of children. Detection and identification of antibodies to EBV are necessary to fully ascertain the stage of EBV infection. Bio-Rad offers microplate EIA kits for EB NA IgG, EB VCA IgG and EB VCA IgM testing. Results are obtained after a 90-minute incubation.

### Convenient

- Ready-to-use reagents
- Rapid turnaround

### Objective

- Microplate format
- Qualitative and/or semi-quantitative detection
- Results normalized as index values

### Simple

- 96-test kit
- Indirect EIA

### IgG EIA Testing

- As an aid in the diagnosis of infectious mononucleosis

### IgM EIA Testing

- Estimate the time of infection by using IgM EIA in conjunction with the IgG EIA

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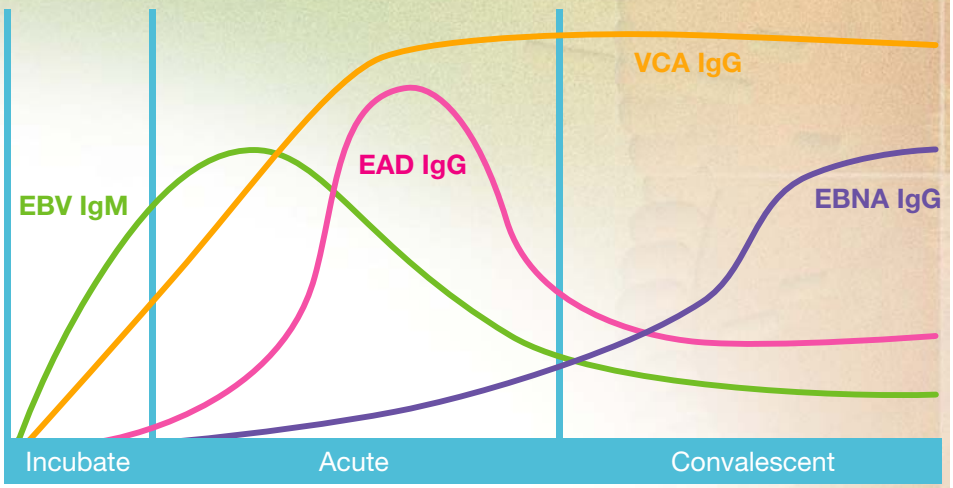
# **Epstein-Barr** Virus Testing

## Interpretation of Results — Same Criteria for EB NA IgG, EB VCA IgG or IgM

| Index Value | Interpretation |
|---|---|
| <0.9 | Negative for EBV antibody |
| ≥1.1 | Positive for EBV antibody |
| ≥0.9 <1.1 | Equivocal |

## EBV Typical Antibody Response




## Epstein-Barr Virus Indirect EIA Procedure

1. 
   - Microplate: breakable wells dry coated with Ag
2. 
   - Pipette 100 µL of diluted test samples, calibrators or samples into the wells (1:51 for IgG/1:26 for IgM)
   - Incubate 30 minutes at room temperature
   - 4 washes
3. 
   - Dispense 100 µL of ready-to-use conjugate
   - Incubate 30 minutes at room temperature
   - 4 washes
4. 
   - Dispense 100 µL of ready-to-use chromogen/substrate
   - Incubate 30 minutes at room temperature
   - Add 100 µL of ready-to-use Stop Reagent

**Read:** At 405 nm. Interpret results according to package insert instructions.

## Ordering Information

| Catalog No. | Description |
|---|---|
| 25183 | EB NA IgG EIA, Microplate..... 96 tests |
| 25184 | EB VCA IgG EIA, Microplate..... 96 tests |
| 25185 | EB VCA IgM EIA, Microplate ..... 96 tests |

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*For further information, please contact the Bio-Rad office nearest you or visit our website at www.bio-rad.com.*

*Clinical Diagnostics Group*

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