

Datasheet for ABIN1326812

CMV IgG ELISA Kit

1 Publication



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Overview

Quantity:	96 tests
Target:	CMV IgG
Reactivity:	Human
Method Type:	Competition ELISA
Application:	ELISA

Product Details

Purpose:	CMV IgG ELISA Kit is intended for the detection of IgG antibody to Cytomegalovirus (CMV) in human serum or plasma.
Sample Type:	Plasma, Serum
Analytical Method:	Qualitative
Detection Method:	Colorimetric

Target Details

Target:	CMV IgG
Alternative Name:	CMV IgG (CMV IgG Products)
Target Type:	Antibody
Background:	Cytomegalovirus (CMV) is a member of the herpes group of viruses. Most adults and children who catch CMV have no symptoms and are not harmed by the virus. CMV infection is of clinical significance primarily in pregnant women, newborn infants with possible congenital infection, immunosuppressed transplant patients and individuals with AIDS. CMV is so prevalent as over

Target Details

60% of people catch the infection at some time in their lives. Significant increases in CMV IgG antibody by ELISA suggest recent infection or reactivation of a latent CMV infection. ELISA can detect CMV IgM antibody in both primary CMV infections (93-100%) and in reactivated infection (40%). An IgM response may be reduced or absent in immunocompromised patients with active infection. In transplant patients the CMV infection can be associated with higher morbidity and mortality.

Application Details

Application Notes: Diluted patient serum is added to wells coated with purified antigen. IgG specific antibody, if present, binds to the antigen. All unbound materials are washed away and the enzyme conjugate is added to bind to the antibody-antigen complex, if present. Excess enzyme conjugate is washed off and substrate is added. The plate is incubated to allow the hydrolysis of the substrate by the enzyme. The intensity of the color generated is proportional to the amount of IgG specific antibody in the sample.

Plate: Pre-coated

Calculation of Results:

- Check Calibrator Factor (CF) value on the calibrator bottle. This value might vary from lot to lot. Make sure you check the value on every kit.
- Calculate the cut-off value: Calibrator OD x Calibrator Factor (CF).
- Calculate the Ab (Antibody) Index of each determination by dividing the O.D. value of each sample by cut-off value.

Restrictions: For Research Use only

Handling

Storage: 4 °C

Publications

Product cited in: Wang, Liu, Xu, Jackson, Roskin, Pham, Laserson, Marshall, Seo, Lee, Furman, Koller, Dekker, Davis, Fire, Boyd: "Effects of aging, cytomegalovirus infection, and EBV infection on human B cell repertoires." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 192, Issue 2, pp. 603-11, (2014) ([PubMed](#)).