

Human Cytomegalovirus Glycoprotein B (HCMV gB) ELISA Kit | HCMVgB elisa kit

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CATALOG #
AAA44706

REACTIVITY
Human

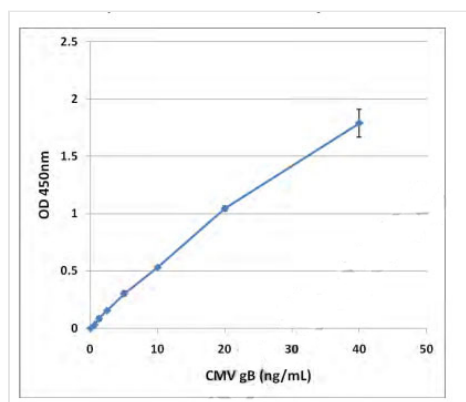
PRODUCT SYNONYMS

Cytomegalovirus Glycoprotein B (HCMV gB); Human Cytomegalovirus Glycoprotein B (HCMV gB) ELISA Kit; HCMVgB elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Detection Method	Colorimetric

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for HCMVgB elisa kit	Background: The human cytomegalovirus (HCMV) is a widespread pathogen responsible for generally asymptomatic and persistent infections in healthy people. It may, however, cause severe disease in the absence of an effective immune response. HCMV is a member of the herpesviruses. The virion of HCMV consists of a 100-nm diameter icosahedral nucleocapsid containing a 230-kbp, double-stranded linear DNA genome surrounded by a proteinaceous layer defined as the tegument or matrix which, in turn, is enclosed by a lipid bilayer containing a large number of viral glycoproteins. The mature virion particle is 150-200 nm in diameter. Glycoprotein B (gB), an abundant glycoprotein on the virus envelope and the most highly conserved glycoprotein of the human herpesviruses, is required for virus entry and cell-to-cell spread of the virus. The HCMV gB ELISA Kit is an enzyme immunoassay developed for detection and quantitation of the HCMV gB protein. The kit has detection sensitivity limit of 625 pg /mL HCMV gB. Each kit provides sufficient reagents to perform up to 96 assays including standard curve and HCMV samples. Principle of the Assay: An anti-HCMV gB monoclonal coating antibody is adsorbed onto a microtiter plate. HCMV gB protein present in the sample or standard binds to the antibody adsorbed on the plate; a FITC-conjugated anti-HCMV gB monoclonal antibody is added and binds to the HCMV gB protein captured by the first antibody. Following incubation and wash steps, a HRP-conjugated mouse antiFITC antibody is added and binds to the FITC conjugated anti-HCMV gB monoclonal antibody. Unbound HRP-conjugated mouse anti-FITC antibody is removed during a wash step, and a substrate solution reactive with HRP is added to the wells. A colored product is formed in proportion to the amount of HCMV gB protein present in the sample. The reaction is terminated by addition of acid and absorbance is measured at 450 nm. A standard curve is prepared from the provided HCMV gB protein standard and the sample HCMV gB protein concentration is then determined.
Product Categories/Family for HCMVgB elisa kit	Pathogen and Toxin Assays; Viral Protein Detection Assays; Human Cytomegalovirus Glycoprotein B (HCMV gB) ELISA Kit

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.

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Online datasheet: <https://stage.aaabiotech.com/hcmvgb-human-elisa-kits/cytomegalovirus-glycoprotein-b-hcmv-gb/44706>