abcam

Product datasheet

Anti-Epstein-Barr Virus IgG Avidity ELISA kit (VCA) ab222940

画像数 1

製品の概要

製品名	Anti-Epstein-Barr Virus IgG Avidity ELISA kit (VCA)
検出方法	Colorimetric
サンプルの種類	Serum, Hep Plasma, Cit plasma
アッセイタイプ	Indirect
ステップ	Multiple steps standard assay
種交差性	**交差種:** Human
製品の概要	The Anti-Epstein-Barr Virus IgG ELISA (Enzyme-Linked Immunosorbent Assay) kit (VCA) (ab222940) is designed for the qualitative determination of Epstein-Barr virus viral capsid (VCA)-specific IgG avidity in human serum or plasma (citrate, heparin) to differentiate between acute and past infection. Microplates are coated with specific antigens to bind the corresponding antibodies of the sample (dual pipetting). After washing the wells to remove all unbound sample material, one well is incubated with reagent and the corresponding well with washing buffer. The reagent removes the low-avidity antibodies from the antigens whereas the high-avidity ones are still bound to the specific antigens. After a second washing step to remove the rest of reagent and low-avidity antibodies, a horseradish peroxidase (HRP) labeled conjugate is added. This conjugate binds to the captured antibodies. In a third washing step unbound conjugate is removed. The immune complex formed by the bound conjugate is visualized by adding Tetramethylbenzidine (TMB) substrate which gives a blue reaction product. The intensity of this product is proportional to the amount of specific antibodies in the specimen. Sulphuric acid is added to stop the reaction. This produces a yellow endpoint color. Absorbance at 450/620 nm is read using an ELISA microwell plate reader.
特記事項	The presence of IgG antibodies to Epstein-Barr Virus indicates the occurrence of the infection but does not distinguish between recent and past infection. Specific IgM antibodies are first detected approximately in ten days and peak at about four weeks post infection. They may persist for several months after acute infections. Based on the evidence that antibody avidity gradually increases after exposure to an immunogen, avidity of IgG antibodies can be used as a marker for distinguishing recent primary from long-term infections. Avidity describes the binding strength of a specific antibody to its antigen. Low-avidity IgG antibodies indicate a primary infection, whereas the presence of IgG antibodies with high avidity points to persistency or reactivation of infection.

試験プラットフォーム Pre-coated microplate (12 x 8 well strips)

製品の特性

保存方法 Store at +4°C. Please refer to protocols.

内容	ラベル	1 x 96 tests
20X Washing Solution	White cap	1 x 50ml
Bottle		1 unit
Cover foil		1 unit
Epstein Barr virus (IgG) Coated Microplate (12 x 8 wells)		1 unit
Epstein Barr virus anti-IgG HRP Conjugate	colored blue; black cap	1 x 20ml
Epstein-Barr Virus (VCA) IgG Control High		1 x 2ml
Epstein-Barr Virus (VCA) IgG Control Low		1 x 2ml
Epstein-Barr Virus IgG Cut-off Control	colored yellow; green cap	1 x 3ml
Epstein-Barr Virus IgG Negative Control	colored yellow; blue cap	1 x 2ml
Epstein-Barr Virus IgG Positive Control	colored yellow; red cap	1 x 2ml
IgG Sample Diluent	colored yellow; white cap	1 x 100ml
Reagent		1 x 15ml
Stop Solution	red cap	1 x 15ml
Strip holder		1 unit
TMB Substrate Solution	Yellow cap	1 x 15ml

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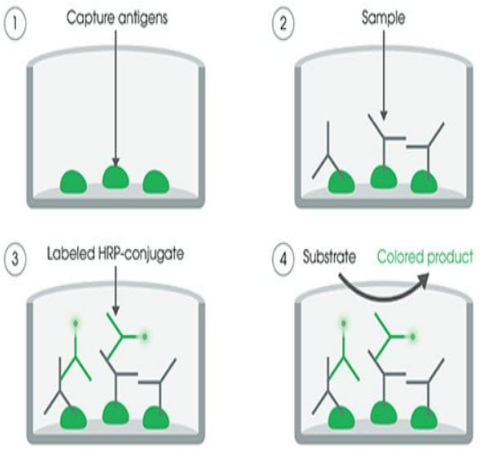
画像



Serologic ELISA assay principle

Specific antigens are coated on the 96-well plate, controls or test samples are added to the well and incubated. The wells are washed to remove any unbound Human anti-antigen antibodies (Ig). A horseradish peroxidase (HRP) labelled anti-Human Ig conjugate is added to the wells. TMB is then catalyzed by the HRP to produce a blue color product that changes to yellow after adding an acidic stop solution. The intensity of yellow coloration is directly proportional to the amount of Human anti-antigen Ig captured on the plate.

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