

EBV EA

Description: The E.Coli derived 35.5 kDa recombinant protein contains the HHV-4 Early Antigen Type D, C-terminus regions amino acids 306-390. The protein is fused to a 26kDa GST tag.

Catalog #: EBPS-279

Purity: EBV-Ea protein is >95% pure as determined by 10% PAGE (coomassie staining).

For research use only.

Purification Method:

EBV-Ea was purified by proprietary chromatographic technique.

Specificity:

Immunoreactive with sera of EBV-infected individuals.

Formulation:

50mM Tris pH-8, 60mM NaCl and 50% glycerol.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Applications:

EBV-Ea antigen is suitable for ELISA and Western blots, excellent antigen for detection of HHV-4 (EBV) with minimal specificity problems.

Introduction:

The Epstein-Barr virus (EBV), also called Human herpes virus 4 (HHV-4), is a virus of the herpes family (which includes Herpes simplex virus and Cytomegalovirus). On infecting the B-lymphocyte, the linear virus genome circularizes and the virus subsequently persists within the cell as an episome. The virus can execute several distinct programs of gene expression which can be broadly categorized as being lytic cycle or latent cycle. The lytic cycle or productive infection results in staged expression of a host of viral proteins with the ultimate objective of producing infectious virions. Formally, this phase of infection does not inevitably lead to lysis of the host cell as EBV virions are produced by budding from the infected cell. The latent cycle (lysogenic) programs are those that do not result in production of virions. A very limited, distinct set of viral proteins are produced during latent cycle infection. These include Epstein-Barr nuclear antigen (EBNA)-1, EBNA-2, EBNA-3A, EBNA-3B, EBNA-3C, EBNA-leader protein (EBNA-LP) and latent membrane proteins (LMP)-1, LMP-2A and LMP-2B and the Epstein-Barr encoded RNAs (EBERs).

Storage:

EBV-Ea although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.

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