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**Antibody to EBV EBNA1
MOUSE MONOCLONAL**

Catalog Number: AB-439
Quantity: 25 micrograms, 50 micrograms, 100 micrograms
Format: PBS, pH 7.4 and 0.02% thimerosol
Host: Mouse
Isotype: IgG2b
Clone: P1B5AT
Immunogen: EBNA1 antibody is derived from hybridization of mouse SP2/O myeloma cells with spleen cells from BALB/c mice immunized with a recombinant Epstein-Barr virus nuclear antigen 1 protein.

Background:

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).

Specificity and Preparation:

EBNA1 antibody was purified from mouse ascitic fluids by protein-G affinity chromatography. Protein formulation is 1 mg/ml containing PBS, pH-7.4, and 0.02% thimerosol. This antibody has been tested by ELISA and Western blot analysis to assure specificity and reactivity.

Usage and Storage:

Applications include direct ELISA, western blot (1:1,000-1:2,000). For each application, the reagent should be titrated to obtain optimal results.

For periods up to 1 month store at 4°C. For longer periods of time store at -20°C. Prevent freeze thaw cycles. Antibody is stable two years at -20°C, one month at 4°C. Antibody is shipped lyophilized at ambient temperature.

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