

**Anti-Epstein-Barr Virus EBNA-1 monoclonal antibody (A-type specific)**

Mouse monoclonal to A-type EBNA-1

<b>Source:</b> Mouse hybridoma		<b>Catalog #:</b> E-EB-1AS		<b>Size:</b> 100 µg
<b>Clone:</b> E94.1		<b>Ig Class:</b> IgG 1		<b>Concentration:</b> 1mg/ml

**Storage:** +4°C up to 1 year. Do not Freeze. If freezing is preferred, aliquot into smaller fractions for storage, do not refreeze.

**Background:**

Epstein-Barr Virus (EBV) belongs to the Herpesvirus family. The virus preferentially infects Human B-cells. In infected individuals the virus can be detected in the blood cells, kidney, bone marrow and other organs. Nuclear antigen 1 (EBNA-1) is one of the key functions of the oncogenic DNA virus, Epstein-Barr virus (EBV), and is the only viral protein consistently expressed in EBV-associated malignancies. EBNA-1 binds in a site-specific manner to the viral DNA and is essential for viral replication, as well as for maintaining the genome as an extrachromosomal episome within infected cells. Two types of EBV exist with distinct biological functions with the A-type virus is the most common variant. The B-type virus is more common in patients with immunodeficiency associated diseases. Molecular weight of EBNA-1 is varies in different cell lines between 65 and 85 kDa.

**Immunogen:**

Purified EBNA-1 from B-95-8 cells.

**Species Reactivity:**

Reacts with Epstein-Barr Virus positive cell lines harboring A-type EBV genome only. The antigenic epitope recognized is between aminoacid positions 460-610.

**Recommended Uses and Dilutions:**

**Western blot:** Use at a concentration of 0.5 - 1 µg/ml. Detects a band between 65-85 kDa depending on the cell line used.

**Immunohistochemistry:** Use at a concentration of 0.5 - 2 µg/ml (1/500 - 1/1,000 dilution).

**Immunofluorescence:** Use at a concentration of 0.5 - 1 µg/ml (1/1,000 - 1/2,000 dilution).

Optimal dilutions/concentrations should be determined by the end user.

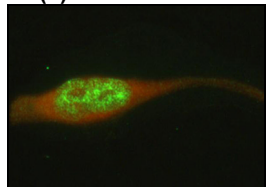
**Positive Control:**

Raji, B-95-8 or Namalva cells.

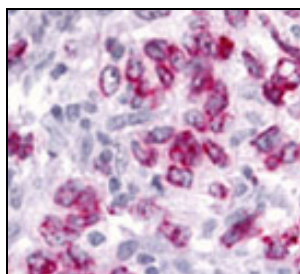
**Limitations:**

This product is for research use only and is not approved for use in humans or in clinical diagnosis.

**Photo(s) for EBNA-1 antibody**



Immunofluorescence staining of methanol fixed B 95-8 cells using anti-EBNA-1 antibody (1/1,000 dilution) and tyramide signal amplification.



NPC tissue stained with anti-EBNA-1 antibody according to the suggested protocol in the product data sheet.



Western blot of:  
1. EBV negative Ramos;  
2. B95-8;  
3. Ramos/B95-8;  
4. Raji;  
5. Jiyoe cell lines;  
**No reactivity with Jiyoe EBNA-1 (B-type EBV).**