# Epstein-Barr Virus EBNA1 Recombinant Protein | EBV EBNA1 recombinant protein

Epstein-Barr Virus EBNA1 Recombinant

| CATALOG # | HOST | APPLICATIONS |
|---|---|---|
| **AAA76094** | **N/A (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)** | **Western Blot, ELISA** |

## PRODUCT SYNONYMS

Epstein-Barr Virus EBNA1; Epstein-Barr Virus EBNA1 Recombinant; ebna1; ebna-1; ebv; epstein barr; EBV EBNA1 recombinant protein

## PRODUCT SPECIFICATIONS

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| **Host** | N/A (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders) |
| **Purity/Purification** | >90% |
| **Form/Format** | 0.2 um filtered 50mM Tris-HCI pH 8, 10mM glutathione, 60mM NaCI, 0.25% Sarkosyl and 50% Glycerol. |
| **Concentration** | Bradford test: 7.14 mg/mL (varies by lot) |
| **Sequence Length** | 641 |
| **Applicable Applications for EBV EBNA1 recombinant protein** | WB (Western Blot), ELISA |
| **Host Note** | DNA sequence encoding fragment of EBV EBNA1 was expressed in Escherichia Coli. |
| **Preparation and Storage** | This protein can be stored in working aliquots at 2-8°C for one month, or at -20°C for six months without detectable loss of activity.<br>Avoid repeated freeze/thaw cycles. |

## ADDITIONAL INFORMATION

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| **Related Product Information for EBV EBNA1 recombinant protein** | EBNA1 is the only EBV protein consistently expressed in all proliferating infected cells and plays several important roles in EBV latent infection, including the initiation of EBV DNA replication, the mitotic segregation of the EBV genomes, and transcriptional activation of other EBV latency proteins. several pieces of evidence suggest that EBNA1 plays a direct role in cellular transformation by EBV. First, EBNA1 is expressed in all EBV-associated tumors and is the only viral protein expressed in some of these tumors. Second, transgenic mice expressing EBNA1 develop malignant B cell lymphomas. Third, the expression of EBNA1 in Hodgkin cells enhances their ability to form tumors in nonobese diabetic-SCID mice. Fourth, EBV genomes lacking the EBNA1 gene are several thousand-fold less efficient at B cell immortalization than EBV genomes expressing EBNA1. Fifth, interference with EBNA1 function in Burkitt's lymphoma cells by overexpression of the EBNA1 DNA binding domain increased cell death, suggesting that EBNA1 normally provides a survival function for these cells. |
| **Product Categories/Family for EBV EBNA1 recombinant protein** | Viral Antigens |

## NCBI AND UNIPROT INFORMATION

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| **NCBI GI #** | 82503233 |
| **NCBI GeneID** | 3783774 |
| **NCBI Accession #** | YP_401677.1 |
| **NCBI GenBank Nucleotide #** | NC_007605.1 |

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| **UniProt Accession #** | P03211; Q777E1; QQBE31 |
| **Molecular Weight** | Tested on SDS-PAGE: 45 kDa |
| **NCBI Official Full Name** | EBNA-1 |
| **UniProt Protein Name** | Epstein-Barr nuclear antigen 1 |
| **UniProt Gene Name** | **EBNA1** |
| **UniProt Synonym Gene Names** | EBNA-1 |
| **UniProt Entry Name** | EBNA1_EBVB9 |

**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/ebna1-recombinant-protein-wb-western-blot-elisa/76094