

Recombinant EBV BLRF2 Antigen, His tagged

Cat. No. BLRF2-009E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The EBV antigen p23 has been prepared as a recombinant antigen fused to a his-tag. It is produced from the almost complete ORF of the BLRF2 gene which codifies the 23 kDa-EBV tegument protein of 23 kDa.
Species	EBV
Source	E.coli
Description	The small capsid antigen p23 is a tegument protein. Although p23 has IgG sensitivity and intensity of reaction similar to those of p18, its IgM reactivity is a bit restricted. With respect to detection of IgG antibodies, p23 and p18 have similar sensitivities. While p18 is more sensitive in detecting previous infections, p23 detects more primary infections.
Tag	N-His
Molecular Mass	Determined by SDS-PAGE, the protein band is at the molecular marker of 25 kDa, while relative molecular mass calculated from amino acid sequence is 19,567.3 Da
Purity	> 95% by observation on SDS-PAGE electrophoresis
Applications	WB, DB, IE, DE, CLIA, LF
Storage	Upon arrival, it should be aliquoted to avoid repeated freezing and thawing cycles and stored at -20 to -80 centigrade. In order to defrost the protein, maintain the

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aliquot at 25 centigrade without shaking to avoid aggregation.

Storage Buffer

20 mM phosphate buffer pH 8, 0.7 M NaCl and 0.1% polyoxyethylene (10) tridecyl ether

Concentration

1.11 mg/mL

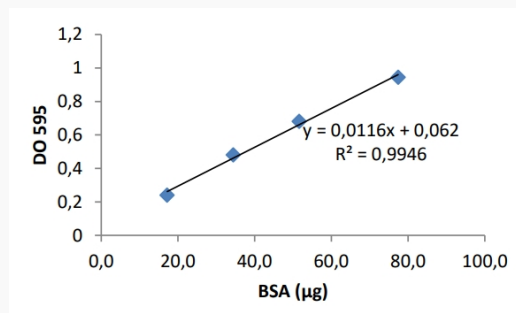
Shipping

Protein is shipped with dry ice.

Reference

1. Färber, I., Hinderer, W., Rothe, M. Lang, D., Sonneborn, H.H. and Wutzler, P. Serological diagnosis of Epstein-Barr virus infection by novel ELISAs based on recombinant capsid antigens p23 and p18. 2001, J. Med. Virol, 63: 271-6.
2. Bradford, MM. A rapid and sensitive method for the quantitation of microgram quantities of protein utilizing the principle of protein dye binding. Anal Biochem. 1976, 131:499-503.

**PROTEIN
CONCENTRATION
DETERMINED
ESPECTROPHOTOMET**



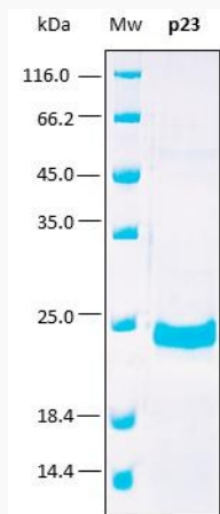
This protein does not contain any Trp residues. Experience shows that this could result in more than 10% error in the computed extinction coefficient. Therefore, we have measured the protein concentration by using the colorimetric assay based on the interaction between Coomassie brilliant blue and the arginine and aromatic residues and its maximum absorption shifts from 470 nm to 595 nm. The standard curve was performed with the protein BSA. 40 µL of the protein were analyzed.

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Purity



SDS-PAGE analysis (15%) of 3 μ L of recombinant p23. Purity is > 95% as determined by gel electrophoresis.

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