SANTA CRUZ BIOTECHNOLOGY, INC.

EBV Ea-R p85 (6G7): sc-56979



BACKGROUND

Epstein-Barr virus (EBV), also designated human herpesvirus 4 (HHV-4), is a member of the herpesvirus family and is one of the most common human viruses. EBV infects B cells and, though often asymptomatic, it can cause infectious mononucleosis, a disease characterized by fatigue, fever, sore throat and muscle soreness. The EBV-induced early antigens (Ea) are among several antigen complexes which have been identified in EBV-infected cells. The Ea complex is composed of diffuse (Ea-D) and restricted (Ea-R) components. The following EBV proteins comprise the Ea-R complex: p30 (BaRF1), the RR small subunit; p17 (BHRF1), the Bcl-2 homolog; and p85 (BORF2), the ribonucleotide reductase large subunit. The EBV early antigen restricted p85 (EBV Ea-R p85) protein is also designated early antigen protein R.

REFERENCES

- Luka, J., Miller, G., Jörnvall, H. and Pearson, G.R. 1986. Characterization of the restricted component of Epstein-Barr virus early antigens as a cytoplasmic filamentous protein. J. Virol. 58: 748-756.
- Goldschmidts, W.L., Ginsburg, M. and Pearson, G.R. 1989. Neutralization of Epstein-Barr virus-induced ribonucleotide reductase with antibody to the major restricted early antigen polypeptide. Virology 170: 330-333.
- Gorgievski-Hrisoho, M., Hinderer, W., Nebel-Schickel, H., Horn, J., Vornhagen, R., Sonneborn, H.H., Wolf, H. and Siegl, G. 1990. Serodiagnosis of infectious mononucleosis by using recombinant Epstein-Barr virus antigens and enzyme-linked immunosorbent assay technology. J. Clin. Microbiol. 28: 2305-2311.
- Ruf, I.K., Rhyne, P.W., Yang, H., Borza, C.M., Hutt-Fletcher, L.M., Cleveland, J.L. and Sample, J.T. 1999. Epstein-Barr virus regulates c-Myc, apoptosis, and tumorigenicity in Burkitt lymphoma. Mol. Cell. Biol. 19: 1651-1660.
- Gan, Y.Y., Fones-Tan, A., Chan, S.H. and Gan, L.H. 2001. Epstein-Barr viral antigens used in the diagnosis of nasopharyngeal carcinoma. J. Biomed. Sci. 3: 159-169.
- 6. Spender, L.C., Lucchesi, W., Bodelon, G., Bilancio, A., Karstegl, C.E., Asano, T., Dittrich-Breiholz, O., Kracht, M., Vanhaesebroeck, B. and Farrell, P.J. 2006. Cell target genes of Epstein-Barr virus transcription factor EBNA-2: induction of the p55 α regulatory subunit of Pl3-kinase and its role in survival of EREB2.5 cells. J. Gen. Virol. 87: 2859-2867.

SOURCE

EBV Ea-R p85 (6G7) is a mouse monoclonal antibody raised against Epstein-Barr virus.

PRODUCT

Each vial contains 100 $\mu g~lg G_1$ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

EBV Ea-R p85 (6G7) is recommended for detection of EBV Ea-R p85 by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Molecular Weight of EBV Ea-R p85: 85 kDa.

SELECT PRODUCT CITATIONS

- Gastaldello, S., Hildebrand, S., Faridani, O., Callegari, S., Palmkvist, M., Di Guglielmo, C. and Masucci, M.G. 2010. A deneddylase encoded by Epstein-Barr virus promotes viral DNA replication by regulating the activity of cullin-RING ligases. Nat. Cell Biol. 12: 351-361.
- 2. Bentz, G.L., Shackelford, J. and Pagano, J.S. 2012. Epstein-Barr virus latent membrane protein 1 regulates the function of interferon regulatory factor 7 by inducing its sumoylation. J. Virol. 86: 12251-12261.
- Gastaldello, S., Chen, X., Callegari, S. and Masucci, M.G. 2013. Caspase-1 promotes Epstein-Barr virus replication by targeting the large tegument protein deneddylase to the nucleus of productively infected cells. PLoS Pathog. 9: e1003664.
- Bentz, G.L., Moss, C.R., Whitehurst, C.B., Moody, C.A. and Pagano, J.S. 2015. LMP1-induced sumoylation influences the maintenance of Epstein-Barr virus latency through KAP1. J. Virol. 89: 7465-7477.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.