SANTA CRUZ BIOTECHNOLOGY, INC.

EBV ZEBRA (vN-20): sc-17502



BACKGROUND

Epstein-Barr virus, frequently referred to as EBV, is a member of the herpesvirus family and one of the most common human viruses. The EBV latent membrane protein 1, otherwise known as LMP1, plays a central role in the transformation process. LMP1 mimics activated receptors of the tumor necrosis factor receptor superfamily to promote cell growth and antiapoptotic mechanisms. LMP1 and other EBV latent proteins upregulate cytokines and growth factors which participate in autocrine and paracrine loops that are likely to promote cell transformation and modulate immune responses. In addition, the crucial Epstein-Barr virus (EBV) gene, ZEBRA, acts as a switch between latency and replication of this herpesvirus. During latency of EBV, ZEBRA expression is repressed. Inducing stimuli cause synthesis of ZEBRA which, in turn, activates expression of several individual EBV early genes. The ZEBRA polypeptide is a site-specific DNA binding protein that is likely to function as a transcriptional transactivator.

REFERENCES

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- 3. Fahmi, H., Cochet, C., Hmama, Z., Opolon, P. and Joab, I. 2000. Transforming growth factor β1 stimulates expression of the Epstein-Barr virus BZLF1 immediate-early gene product ZEBRA by an indirect mechanism which requires the MAPK kinase pathway. J. Virol. 13: 5810-5818.
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SOURCE

EBV ZEBRA (vN-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of ZEBRA of EBV origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-17502 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

STORAGE

Store at 4° C, **D0 NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

EBV ZEBRA (vN-20) is recommended for detection of ZEBRA of EBV origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Molecular Weight of EBV ZEBRA: 38 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker[™] Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2033 and Western Blotting Luminol Reagent: sc-2048.

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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.

MONOS Satisfation Guaranteed Try **EBV ZEBRA (BZ1): sc-53904**, our highly recommended monoclonal alternative to EBV ZEBRA (vN-20). Also, for AC, HRP, FITC, PE, Alexa Fluor[®] 488 and Alexa Fluor[®] 647 conjugates, see **EBV ZEBRA** (**BZ1): sc-53904**.