

UBN-1 (N-21): sc-12258

BACKGROUND

Epstein-Barr virus (EBV)-associated lymphoproliferative disorders frequently develop in patients with AIDS. The major target tissues for EBV infection are B lymphocytes and epithelial cells of the oropharyngeal zone. The protein product of the EBV BZLF1 early gene, EB1, interacts with viral and cellular promoters and transcription factors, thereby modulating the reactivation of EBV infection. The EB1 interacting protein, ubinuclein (UBN-1), is a product of the UBN1 gene and is expressed in the nucleus of human epidermis. The amino terminus of ubinuclein contains the nuclear localization signal whereas the central domain is responsible for the interaction of UBN-1 with the DNA-binding domain of EB1.

REFERENCES

1. Giot, J.F., Mikaelian, I., Buisson, M., Manet, E., Joab, I., Nicolas, J.C. and Sergeant, A. 1991. Transcriptional interference between the EBV transcription factors EB1 and R: both DNA-binding and activation domains of EB1 are required. *Nucleic Acids Res.* 19: 1251-1258.
2. Baumann, M., Mischak, H., Dammeier, S., Kolch, W., Gires, O.I., Pich, D., Zeidler, R., Delecluse, H.J. and Hammerschmidt, W. 1998. Activation of the Epstein-Barr virus transcription factor BZLF1 by 12-O-tetradecanoylphorbol-13-acetate-induced phosphorylation. *J. Virol.* 72: 8105-8114.
3. Adamson, A.L. and Kenney, S. 1999. The Epstein-Barr virus BZLF1 protein interacts physically and functionally with the histone acetylase CREB-binding protein. *J. Virol.* 73: 6551-6558.
4. Aho, S., Buisson, M., Pajunen, T., Tyoo, Y.W., Giot, J.F., Gruffat, H., Sergeant, A. and Uitto, J. 2000. Ubinuclein, a novel nuclear protein interacting with cellular and viral transcription factors. *J. Cell Biol.* 148: 1165-1176.
5. Schneider, U., Ruhnke, M., Delecluse, H.J., Stein, H. and Huhn, D. 2000. Regression of Epstein-Barr virus-associated lymphoproliferative disorders in patients with acquired immunodeficiency syndrome during therapy with foscarnet. *Ann. Hematol.* 79: 214-216.

CHROMOSOMAL LOCATION

Genetic locus: UBN1 (human) mapping to 16p13.3.

SOURCE

UBN-1 (N-21) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of UBN-1 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-12258 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-12258 X, 200 µg/0.1 ml.

APPLICATIONS

UBN-1 (N-21) is recommended for detection of UBN-1 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

UBN-1 (N-21) is also recommended for detection of UBN-1 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for UBN-1 siRNA (h): sc-106663, UBN-1 shRNA Plasmid (h): sc-106663-SH and UBN-1 shRNA (h) Lentiviral Particles: sc-106663-V.

UBN-1 (N-21) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

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-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

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

RESEARCH USE

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

PROTOCOLS

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


 MONOS
 Satisfation
 Guaranteed

Try **UBN-1 (D-8): sc-515340** or **UBN-1 (UBN1G12): sc-81420**, our highly recommended monoclonal alternatives to UBN-1 (N-21).