

## UBN-2 (m): 293T Lysate: sc-119629

### 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. UBN-2 (ubinuclein-2), also designated D130059P03Rik in mouse, is a 1,347 amino acid protein that is related to UBN-1 and is phosphorylated upon DNA damage, probably by ATR or Atm. There are two isoforms of UBN-2 that are produced as a result of alternative splicing events.

### REFERENCES

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4. Balaji, S., et al. 2009. HPC2 and ubinuclein define a novel family of histone chaperones conserved throughout eukaryotes. *Mol. Biosyst.* 5: 269-275.
5. Banumathy, G., et al. 2009. Human UBN1 is an ortholog of yeast HPC2p and has an essential role in the HIRA/ASF1a chromatin-remodeling pathway in senescent cells. *Mol. Cell. Biol.* 29: 758-770.
6. Meyer, R.E., et al. 2010. A single mutation results in diploid gamete formation and parthenogenesis in a *Drosophila* yemanuclein- $\alpha$  meiosis I defective mutant. *BMC Genet.* 11: 104.
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### CHROMOSOMAL LOCATION

Genetic locus: Ubn2 (mouse) mapping to 6 B1.

### PRODUCT

UBN-2 (m): 293T Lysate represents a lysate of mouse UBN-2 transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l SDS-PAGE buffer.

### STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

### APPLICATIONS

UBN-2 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive UBN-2 antibodies. Recommended use: 10-20  $\mu$ l per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

### RESEARCH USE

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

### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.