SANTA CRUZ BIOTECHNOLOGY, INC.

UBL3 (m): 293T Lysate: sc-124425

BACKGROUND

Ubiquitin is a 77 amino acid protein that targets proteins for degradation by the 26S Proteasome. Ubiquitin-like proteins are not directly involved in protein degradation, but appear to have many mechanistic similarities with the ubiquitin pathway. UBL3 (ubiquitin-like protein 3), also known as membrane-anchored ubiquitin-fold protein (MUB) or PNSC1, is a 117 amino acid membrane protein belonging to the ubiquitin-like family. Highly conserved between species, UBL3 contains two potential N-glycosylation sites, a potential protein kinase C phosphorylation site, and a potential C-terminal prenylation site. The gene encoding UBL3 is localized to chromosome 13q12.3.

REFERENCES

1. Olvera, J. and Wool, I.G. 1993. The carboxyl extension of a ubiquitin-like protein is rat ribosomal protein S30. J. Biol. Chem. 268: 17967-17974.
2. Hodges, M., Tissot, C. and Freemont, P.S. 1998. Protein regulation: tag wrestling with relatives of ubiquitin. Curr. Biol. 8: R749-R752.
3. Chadwick, B.P., Kidd, T., Sgouros, J., Ish-Horowicz, D. and Frischauf, A.M. 1999. Cloning, mapping and expression of UBL3, a novel ubiquitin-like gene. Gene 233: 189-195.
4. Online Mendelian Inheritance in Man, OMIM™. 2004. Johns Hopkins University, Baltimore, MD. MIM Number: 604711. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
5. Leung, A., Geng, F., Daulny, A., Collins, G., Guzzardo, P. and Tansey, W.P. 2008. Transcriptional control and the ubiquitin-proteasome system. Ernst Schering Found. Symp. Proc. 75-97.
6. Segref, A. and Hoppe, T. 2009. Think locally: control of ubiquitin-dependent protein degradation in neurons. EMBO Rep. 10: 44-50.
7. Okumura, F. 2009. Regulation of immune response by ubiquitin-like molecule ISG15. Seikagaku 81: 223-232.

CHROMOSOMAL LOCATION

Genetic locus: Ubl3 (mouse) mapping to 5 G3.

PRODUCT

UBL3 (m): 293T Lysate represents a lysate of mouse UBL3 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

RESEARCH USE

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

APPLICATIONS

UBL3 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive UBL3 antibodies. Recommended use: 10-20 µl per lane.

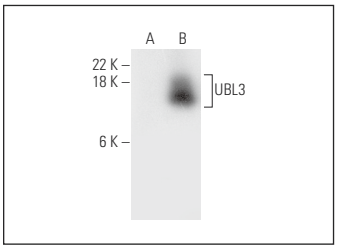
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

UBL3 (C-2): sc-514190 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse UBL3 expression in UBL3 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



UBL3 (C-2): sc-514190. Western blot analysis of UBL3 expression in non-transfected: sc-117752 (**A**) and mouse UBL3 transfected: sc-124425 (**B**) 293T whole cell lysates.

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.

PROTOCOLS

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