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USP11 (m): 293T Lysate: sc-124490

BACKGROUND

The ubiquitin (Ub) pathway involves three sequential enzymatic steps that facilitate the conjugation of Ub and Ub-like molecules to specific protein substrates. Through the use of a wide range of enzymes that can add or remove ubiquitin, the Ub pathway controls many intracellular processes such as signal transduction, transcriptional activation and cell cycle progression. USP11 (ubiquitin specific peptidase 11), also known as UHX1, is a 920 amino acid deubiquitinating enzyme that participates in the Ub pathway. Localized to the nucleus, USP11 associates with both Ran BP-M (Ran binding protein-M) and with the tumor suppressor BRCA2. Through these associations, USP11 functions to either inhibit ubiquitination of these proteins or to remove ubiquitin residues that have already been attached to these proteins. USP11 is implicated in several X-linked retinal diseases and, due to its ability to deubiquitinate BRCA2, may play a role in tumor suppression.

REFERENCES

1. Swanson, D.A., Freund, C.L., Ploder, L., McInnes, R.R. and Valle, D. 1996. A ubiquitin C-terminal hydrolase gene on the proximal short arm of the X chromosome: implications for X-linked retinal disorders. *Hum. Mol. Genet.* 5: 533-538.
2. Brandau, O., Nyakatura, G., Jedele, K.B., Platzer, M., Achatz, H., Ross, M., Murken, J., Rosenthal, A. and Meindl, A. 1998. UHX1 and PCTK1: precise characterisation and localisation within a gene-rich region in Xp11.23 and evaluation as candidate genes for retinal diseases mapped to Xp21.1-p11.2. *Eur. J. Hum. Genet.* 6: 459-466.
3. Ideguchi, H., Ueda, A., Tanaka, M., Yang, J., Tsuji, T., Ohno, S., Hagiwara, E., Aoki, A. and Ishigatsubo, Y. 2002. Structural and functional characterization of the USP11 deubiquitinating enzyme, which interacts with the RanGTP-associated protein Ran BP-M. *Biochem. J.* 367: 87-95.
4. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 300050. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
5. Schoenfeld, A.R., Apgar, S., Dolios, G., Wang, R. and Aaronson, S.A. 2004. BRCA2 is ubiquitinated *in vivo* and interacts with USP11, a deubiquitinating enzyme that exhibits prosurvival function in the cellular response to DNA damage. *Mol. Cell. Biol.* 24: 7444-7455.
6. Yamaguchi, T., Kimura, J., Miki, Y. and Yoshida, K. 2007. The deubiquitinating enzyme USP11 controls an I κ B kinase α (IKK α)-p53 signaling pathway in response to tumor necrosis factor α (TNF α). *J. Biol. Chem.* 282: 33943-33948.

CHROMOSOMAL LOCATION

Genetic locus: Usp11 (mouse) mapping to X A1.3.

PRODUCT

USP11 (m): 293T Lysate represents a lysate of mouse USP11 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

RESEARCH USE

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

APPLICATIONS

USP11 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive USP11 antibodies. Recommended use: 10-20 μ l per lane.

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

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.