SANTA CRUZ BIOTECHNOLOGY, INC.

USP36 (h): 293T Lysate: sc-115507

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. USP36 (ubiquitin specific peptidase 36), also known as DUB1, is a 1,121 amino acid protein that localizes to the nucleus and belongs to the peptidase C19 family. Expressed in a variety of tissues, USP36 functions to catalyze the conversion of a ubiquitin C-terminal thio ester to a free ubiquitin and a free thiol, an event that plays an important role in proteasome-mediated protein disposal. Two isoforms of USP36 exist due to alternative splicing events.

REFERENCES

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4. Kim, M.S., et al. 2004. A novel cysteine protease HeLa DUB-1 responsible for cleaving the ubiquitin in human ovarian cancer cells. Int. J. Oncol. 25: 373-379.
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7. Nousiainen, M., et al. 2006. Phosphoproteome analysis of the human mitotic spindle. Proc. Natl. Acad. Sci. USA 103: 5391-5396.
8. Li, J., et al. 2008. Differential display identifies overexpression of the USP36 gene, encoding a deubiquitinating enzyme, in ovarian cancer. Int. J. Med. Sci. 5: 133-142.

CHROMOSOMAL LOCATION

Genetic locus: USP36 (human) mapping to 17q25.3.

PRODUCT

USP36 (h): 293T Lysate represents a lysate of human USP36 transfected 293T cells and is provided as 100 µg protein in 200 µl 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.

PROTOCOLS

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

APPLICATIONS

USP36 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive USP36 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.

RESEARCH USE

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