

UBAP1 (h): 293T Lysate: sc-158031

BACKGROUND

Ubiquitin (Ub) is among the most phylogenetically conserved proteins known. The primary function of ubiquitin is to clear abnormal, foreign and improperly folded proteins by targeting them for degradation by the 26S proteasome. Encoded by four genes, ubiquitin is synthesized as precursor proteins that consist of either single ubiquitin moieties fused 5' to unrelated carboxyl extension proteins, known as UBA type, or polyubiquitin chains that are cleaved into moieties of the UBB or UBC types. As a member of the UBA (ubiquitin-associated) domain family, UBAP1 (ubiquitin-associated protein 1), also known as NAG20 (nasopharyngeal carcinoma-associated gene 20 protein), is a 502 amino acid protein that is encoded by a gene that maps within a region on human chromosome 9 that undergoes loss of heterozygosity in nasopharyngeal carcinoma. This suggests that the UBAP1 gene may be a tumor suppressor gene that when lost leads to malignant transformation. There are two isoforms of UBAP1 that are produced as a result of alternative splicing events.

REFERENCES

1. Qian, J., et al. 2001. Isolation and characterization of a novel cDNA, UBAP1, derived from the tumor suppressor locus in human chromosome 9p21-22. *J. Cancer Res. Clin. Oncol.* 127: 613-618.
2. Qian, J., et al. 2001. Cloning and expression analysis of a novel gene, UBAP1, possibly involved in ubiquitin pathway. *Sheng Wu Hua Xue Yu Sheng Wu Wu Li Xue Bao* 33: 147-152.
3. Qian, J., et al. 2002. Identification of digital differential expression patterns of a novel human gene (UBAP1) by an expressed sequence tag strategy. *Ai Zheng* 21: 225-228.
4. Xiong, W., et al. 2003. Polymorphism of two novel SNPs, which locate on chromosome 9p21-22, in Han Chinese of Hunan. *Zhonghua Yi Xue Yi Chuan Xue Za Zhi* 20: 203-206.
5. Zeng, Z.Y., et al. 2005. Expression and location of UBAP1 protein associated with nasopharyngeal carcinoma. *Zhong Nan Da Xue Xue Bao Yi Xue Ban* 30: 621-624.

CHROMOSOMAL LOCATION

Genetic locus: UBAP1 (human) mapping to 9p13.3.

PRODUCT

UBAP1 (h): 293T Lysate represents a lysate of human UBAP1 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

UBAP1 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive UBAP1 antibodies. Recommended use: 10-20 µl per lane.

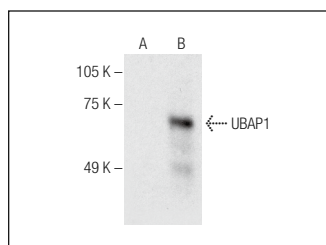
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

UBAP1 (D-8): sc-390350 is recommended as a positive control antibody for Western Blot analysis of enhanced human UBAP1 expression in UBAP1 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



UBAP1 (D-8): sc-390350. Western blot analysis of UBAP1 expression in non-transfected: sc-117752 (A) and human UBAP1 transfected: sc-158031 (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.

RESEARCH USE

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

PROTOCOLS

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