

UBAP1 (D-8): sc-390350

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.

CHROMOSOMAL LOCATION

Genetic locus: UBAP1 (human) mapping to 9p13.3; Ubp1 (mouse) mapping to 4 A5.

SOURCE

UBAP1 (D-8) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 202-215 within an internal region of UBAP1 of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

UBAP1 (D-8) is available conjugated to agarose (sc-390350 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-390350 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-390350 PE), fluorescein (sc-390350 FITC), Alexa Fluor® 488 (sc-390350 AF488), Alexa Fluor® 546 (sc-390350 AF546), Alexa Fluor® 594 (sc-390350 AF594) or Alexa Fluor® 647 (sc-390350 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-390350 AF680) or Alexa Fluor® 790 (sc-390350 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-390350 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

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APPLICATIONS

UBAP1 (D-8) is recommended for detection of UBAP1 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

UBAP1 (D-8) is also recommended for detection of UBAP1 in additional species, including equine and porcine.

Suitable for use as control antibody for UBAP1 siRNA (h): sc-92628, UBAP1 siRNA (m): sc-154842, UBAP1 shRNA Plasmid (h): sc-92628-SH, UBAP1 shRNA Plasmid (m): sc-154842-SH, UBAP1 shRNA (h) Lentiviral Particles: sc-92628-V and UBAP1 shRNA (m) Lentiviral Particles: sc-154842-V.

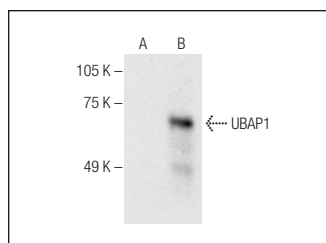
Molecular Weight of UBAP1 isoforms 1/2: 55/48 kDa.

Positive Controls: UBAP1 (h): 293T Lysate: sc-158031.

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. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

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 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

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