SANTA CRUZ BIOTECHNOLOGY, INC.

ARP (1D10): sc-517093



BACKGROUND

The gene encoding arginine-rich protein (ARP), also designated ARMET, which is highly conserved in all species, localizes to human chromosome 3p21.2. Mutation of ARP occurs in several human tumors, including primary head and neck, non-small-cell lung, renal cell, breast and prostate cancers. Previously, malignancy of the ARP gene was thought to be the result of frequent variations of the triplet AGG repeat around codon 50, but studies showed no significant difference in this variation between normal and cancer patient populations. Subsequently, it has been shown that the ARP protein contains a smaller N-terminal region, which does not include the arginine-rich region, and that codon 50 actually is the start codon for the protein. A function for the ARP protein has yet to be determined.

REFERENCES

- 1. Shridhar, V., et al. 1996. A gene from human chromosomal band 3p21.1 encodes a highly conserved arginine-rich protein and is mutated in renal cell carcinomas. Oncogene 12: 1931-1939.
- 2. Evron, E., et al. 1997. Normal polymorphism in the incomplete trinucleotide repeat of the arginine-rich protein gene. Cancer Res. 57: 2888-2889.
- Shridhar, V., et al. 1997. Mutations in the arginine-rich protein gene (ARP) in pancreatic cancer. Oncogene 14: 2213-2216.
- 4. Tanaka, H., et al. 2000. Polymorphic variation of the ARP gene on 3p21 in Japanese esophageal cancer patients. Oncol. Rep. 7: 591-593.

CHROMOSOMAL LOCATION

Genetic locus: MANF (human) mapping to 3p21.2; Manf (mouse) mapping to 9 F1.

SOURCE

ARP (1D10) is a mouse monoclonal antibody raised against amino acids 116-185 representing partial length ARP of human origin.

PRODUCT

Each vial contains 100 μg lgG_1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

ARP (1D10) is recommended for detection of ARP of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

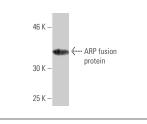
Suitable for use as control antibody for ARP siRNA (h): sc-45435, ARP siRNA (m): sc-45436, ARP shRNA Plasmid (h): sc-45435-SH, ARP shRNA Plasmid (m): sc-45436-SH, ARP shRNA (h) Lentiviral Particles: sc-45435-V and ARP shRNA (m) Lentiviral Particles: sc-45436-V.

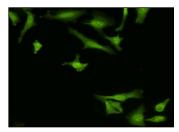
Molecular Weight of ARP: 20 kDa

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 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-IgG κ BP-FITC: sc-516140 or m-IgG κ 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





ARP (1D10): sc-517093. Western blot analysis of human recombinant ARP fusion protein.

ARP (1D10); sc-517093. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic, nuclear and nucleolar localization.

STORAGE

Store at 4° C, **D0 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.

PROTOCOLS

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