

APRIN (F-9): sc-518248

BACKGROUND

APRIN (androgen-induced proliferation inhibitor), also known as Androgen Shutoff 3 (AS3) or PDS5 regulator of cohesion maintenance homolog B (PDS5B), is required for androgen-dependent growth arrest in prostate cells. It mediates the androgen regulated cell cycle arrest in the G₀/G₁ phase of prostate epithelial cells. APRIN is a highly conserved protein containing a nuclear localization sequence near the C-terminal, a DNA-binding domain, a coiled coil domain, a leucine zipper and a protein kinase domain. It is expressed in smooth muscle stromal cells and basal and luminal epithelial cells, localizing to the nucleus. APRIN is related to the fungal proteins *Aspergillus* bimD and *Sodaria* Spo76p. APRIN may also function as a transcription factor and protein kinase. A loss of the gene encoding APRIN strongly correlates with prostate cancer.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PDS5B (human) mapping to 13q13.1; Pds5b (mouse) mapping to 5 G3.

SOURCE

APRIN (F-9) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 1254-1273 of APRIN of human origin.

PRODUCT

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

APPLICATIONS

APRIN (F-9) is recommended for detection of APRIN of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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 APRIN siRNA (h): sc-61984, APRIN siRNA (m): sc-61985, APRIN shRNA Plasmid (h): sc-61984-SH, APRIN shRNA Plasmid (m): sc-61985-SH, APRIN shRNA (h) Lentiviral Particles: sc-61984-V and APRIN shRNA (m) Lentiviral Particles: sc-61985-V.

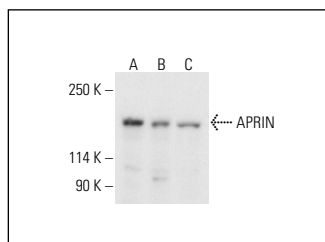
Molecular Weight of APRIN: 165 kDa.

Positive Controls: Raji whole cell lysate: sc-364236, Jurkat whole cell lysate: sc-2204 or NIH/3T3 whole cell lysate: sc-2210.

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 Marker[™] Molecular Weight Standards: sc-2035, UltraCruz[®] Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein L-Agarose: sc-2336 (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



APRIN (F-9): sc-518248. Western blot analysis of APRIN expression in Raji (A), Jurkat (B) and NIH/3T3 (C) whole cell lysates. Detection reagent used: m-IgG κ BP-HRP: sc-516102.

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.