**BACKGROUND**

AVEN, a cell death regulator, is an important signal inducer in acute leukemias. AVEN is a highly conserved peripheral membrane protein that protects the cell against the proteolytic activation of caspsases as well as Apaf-1 mediated apoptosis by interfering with the ability of Apaf to self-associate. Bcl-2 and Bad also interact with AVEN to prevent apoptosis. AVEN is highly expressed in ovary, heart, thymus, spleen, testis and colon, but can also be detected in other tissues. Erythropoietin and methylprednisolone may play important roles in the expression of AVEN in cardiac tissue, especially after a traumatic brain injury. In young patients suffering from acute lymphoblastic leukemia (ALL), AVEN expression may be a useful tool in prognosis prediction.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: AVEN (human) mapping to 15q14; Aven (mouse) mapping to 2 E3.

**SOURCE**

AVEN (3L3) is a mouse monoclonal antibody raised against recombinant AVEN protein of human origin.

**PRODUCT**

Each vial contains 100 µg IgG2b kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

AVEN (3L3) is recommended for detection of AVEN of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for AVEN siRNA (h): sc-60233, AVEN siRNA (m): sc-60234, AVEN shRNA Plasmid (h): sc-60233-SH, AVEN shRNA Plasmid (m): sc-60234-SH, AVEN shRNA (h) Lentiviral Particles: sc-60233-V and AVEN shRNA (m) Lentiviral Particles: sc-60234-V.

Molecular Weight of AVEN: 39 kDa.

Positive Controls: Ramos cell lysate: sc-2216 or Jurkat whole cell lysate: sc-2204.

**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, 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).

**DATA**

![Western blot analysis of AVEN expression in Jurkat whole cell lysate.](image)

**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.

**PROTOCOLS**

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