

Datasheet for 600-401-Y99**AVEN Antibody****Overview**

Description:	Anti-AVEN (RABBIT) Antibody - 600-401-Y99
Item No.:	600-401-Y99
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Apoptosis plays a major role in normal organism development, tissue homeostasis, and removal of damaged cells. Disruption of this process has been implicated in a variety of diseases such as cancer. Aven is a recently discovered protein that blocks apoptosis induced by Apaf-1 and caspase-9. It is thought that Aven functions by binding to Bcl-xL, an antiapoptotic member of the Bcl-2 family, and to Apaf-1, possibly interfering with the ability of Apaf-1 to self-associate, suggesting that Aven impedes Apaf-1-mediated caspase activation. Higher levels of Aven mRNA are seen in patients with acute leukemia than in control patients, suggesting that Aven may be useful as a prognostic indicator in leukemia patients.
Synonyms:	Aven Antibody, PDCD12, Cell death regulator Aven
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	AVEN
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-Aven antibody was prepared from whole rabbit serum produced by repeated immunizations with a 18 amino acid synthetic peptide from near the N-terminus of human Aven.

Purity/Specificity: Anti-Aven Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with Aven from other sources has not been determined.

Relevant Links:

- [UniProtKB - Q9NQS1](#)
- [GeneID - 57099](#)
- [NCBI - NP_065104](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-Aven Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 39 kDa in Western Blots of specific cell lysates and tissues.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:10,000

IF: 20 µg/mL

IHC: 5 µg/mL

WB: 1 µg/mL

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1 mg/mL by UV absorbance at 280 nm

Buffer: 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2

Preservative: 0.02% (w/v) Sodium Azide

Stabilizer: None

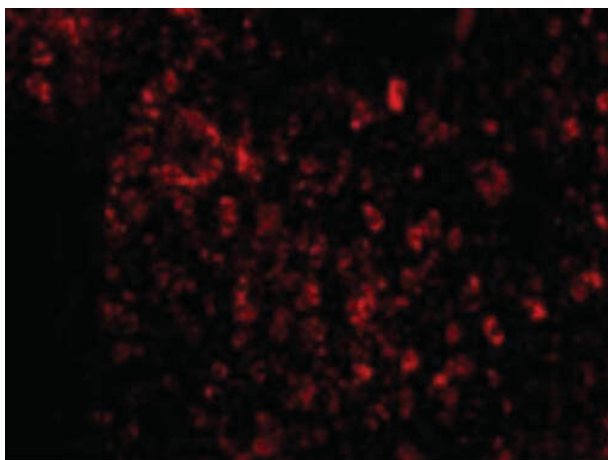
Shipping & Handling

Shipping Condition: Dry Ice

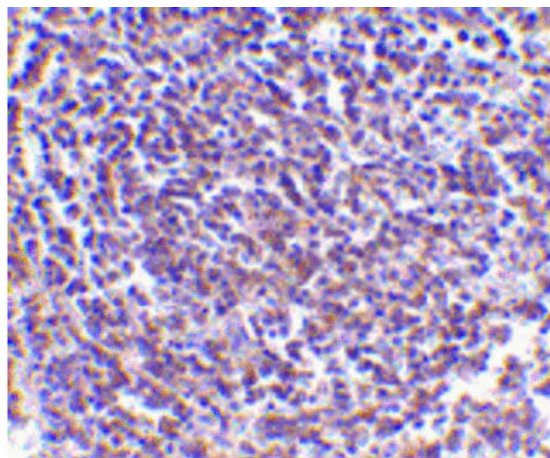
Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration:

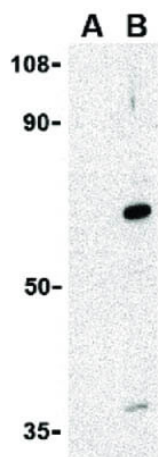
Expiration date is one (1) year from date of receipt.

Images**Immunofluorescence Microscopy**

Immunofluorescence Microscopy of AVEN antibody. Tissue: Human spleen cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: AVEN antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: AVEN is localized in the endomembrane system. Staining: AVEN as red fluorescent signal.

**Immunohistochemistry**

Immunohistochemistry of AVEN antibody. Tissue: Human spleen tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: AVEN antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: AVEN is localized in the endomembrane system. Staining: AVEN as precipitated brown signal with hematoxylin purple nuclear counterstain.

**Western Blot**

Western Blot of AVEN antibody. Lane 1: Raji cell lysate. Lane 2: Raji cell lysate in the presence of blocking peptide. Load: 35 µg per lane. Primary antibody: AVEN antibody at 1 µg/mL for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 38.5 kDa, 60 kDa for AVEN. Other band(s): AVEN splice variants and isoforms.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.