

**Datasheet for 600-401-G74****AID Antibody****Overview**

|                      |                                          |
|----------------------|------------------------------------------|
| <b>Description:</b>  | Anti-AID (RABBIT) Antibody - 600-401-G74 |
| <b>Item No.:</b>     | 600-401-G74                              |
| <b>Size:</b>         | 100 µg                                   |
| <b>Applications:</b> | ELISA, IHC, WB                           |
| <b>Reactivity:</b>   | Human, Mouse                             |
| <b>Host Species:</b> | Rabbit                                   |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>   | AID antibody detects human AID. Activation-induced cytidine deaminase (AID) was initially discovered as a homolog of the apolipoprotein B RNA-editing cytidine deaminase 1 (APOBEC1) that showed cytidine deaminase properties in stimulated B cell lines. It is necessary for somatic hypermutation and class switch recombination in B cells, but inappropriate or dysregulated expression AID is often found in tumors and B cell neoplasms. Although it is structurally and functionally similar to the APOBEC proteins, it appears unlikely that AID deaminates dC to dU residues in HIV cDNA as does APOBEC3G. Anti-AID antibodies are ideal for investigators involved in Apolipoprotein and Infectious Disease research. |
| <b>Synonyms:</b>     | ARP2, CDA2, HIGM2, HEL-S-284, AID, Single-stranded DNA cytosine deaminase, Activation-induced cytidine deaminase                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Host Species:</b> | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

**Target Details**

|                        |                                                                                                                                                                    |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name:</b>      | AID                                                                                                                                                                |
| <b>Reactivity:</b>     | Human, Mouse                                                                                                                                                       |
| <b>Immunogen Type:</b> | Conjugated Peptide                                                                                                                                                 |
| <b>Immunogen:</b>      | AID Antibody was produced from whole rabbit serum prepared by repeated immunizations with a peptide corresponding to amino acids near the c-terminus of human AID. |

**Purity/Specificity:** Anti-AID Antibody was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest cross-reactivity with AID with Human and Mouse based on 100% homology with the immunizing sequence. Cross-reactivity with AID from other sources has not been determined.

**Relevant Links:**

- [NCBI - AAM95402](#)
- [UniProtKB - Q8NFC5](#)

## Application Details

|                             |                                                                                                                                                                                           |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tested Applications:</b> | ELISA, IHC, WB                                                                                                                                                                            |
| <b>Application Note:</b>    | Anti-AID Antibody is tested for use in E, WB, and ICC. Expect a band approximately ~23.9 kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user. |
| <b>Assay Dilutions:</b>     | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                           |
| <b>IF:</b>                  | 20µg/mL                                                                                                                                                                                   |
| <b>WB:</b>                  | 2µg/mL                                                                                                                                                                                    |

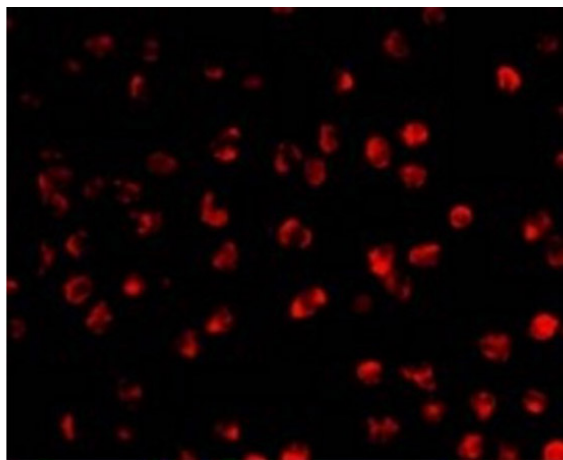
## Formulation

|                        |                                                            |
|------------------------|------------------------------------------------------------|
| <b>Physical State:</b> | Liquid (sterile filtered)                                  |
| <b>Concentration:</b>  | 1 mg/mL by UV absorbance at 280 nm                         |
| <b>Buffer:</b>         | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 |
| <b>Preservative:</b>   | 0.02% (w/v) Sodium Azide                                   |
| <b>Stabilizer:</b>     | None                                                       |

## Shipping & Handling

|                            |                                                                                                                                                                                                                                                                                                                                               |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Shipping Condition:</b> | Dry Ice                                                                                                                                                                                                                                                                                                                                       |
| <b>Storage Condition:</b>  | 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. |
| <b>Expiration:</b>         | Expiration date is one (1) year from date of receipt.                                                                                                                                                                                                                                                                                         |

## Images

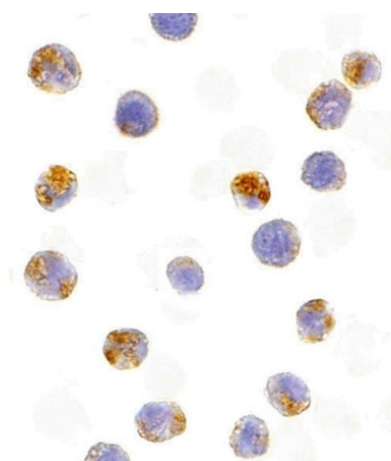


### Immunofluorescence Microscopy

Immunofluorescence of AID.

Cell: Ramos cells.

Primary Antibody: Anti-AID antibody at 20 µg/mL.

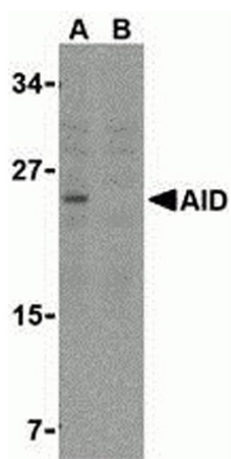


### Immunocytochemistry

Immunocytochemistry of AID.

Cell: Ramos cells.

Primary Antibody: Anti-AID antibody at 10 µg/mL.



### Western Blot

Western blot analysis of AID.

Load: Ramos whole cell lysate.

Primary Antibody: Anti-AID antibody at 2 µg/mL in either the (A) absence or (B) presence of blocking peptide.

## 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.