

Datasheet: AHP994T

Description:	RABBIT ANTI AID (C-TERMINAL)
Specificity:	AID (C-TERMINAL)
Other names:	ACTIVATION-INDUCED CYTIDINE DEAMINASE
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			■	
Immunohistology - Frozen			■	
Immunohistology - Paraffin			■	
ELISA			■	
Immunoprecipitation			■	
Western Blotting	■			2ug/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Species Cross Reactivity	Reacts with: Mouse N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Preparation	Antisera to human AID (CT) were raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.02% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0mg/ml

Immunogen A 14 amino acid peptide located near human AID carboxy-terminus.

**External Database
Links**

UniProt:

[Q9GZX7](#)

[Related reagents](#)

Entrez Gene:

[57379](#)

AICDA

[Related reagents](#)

Synonyms

AID

Specificity

Rabbit anti Human AID antibody recognizes an epitope within the C-terminal region (CT) of Activation-induced cytidine deaminase (AID), a ~24 kDa homologue of the RNA-editing cytidine deaminase enzyme, APOBEC-1.

Although the molecular mechanisms by which AID acts remain unclear, a growing number of studies reveal a requirement for AID during somatic hypermutation (SHM) and class switch recombination (CSR). These genetic modification events take place within highly specialised B cell germinal centres, during the final maturation stages of B cells, giving rise to high-affinity antibodies which use CSR to switch from IgM to IgG, IgA or IgE isotypes.

Western Blotting

AHP994T detects a band of approximately 24kDa in Ramos whole cell lysates.

Further Reading

1. Muramatsu, M. et al. (1999) Specific expression of activation-induced cytidine deaminase (AID), a novel member of the RNA-editing deaminase family in germinal center B cells*. [J. Biol. Chem. 274: 18470-18476.](#)
2. Muramatsu, M. et al. (2000) Class switch recombination and hypermutation require activation-induced cytidine deaminase (AID), a potential RNA editing enzyme. [Cell. 102: 553-563.](#)
3. Yu, K. et al. (2005) Fine-structure analysis of activation-induced deaminase accessibility to class switch region R-loops. [Mol. and Cell. Biol. 25: 1730-1736](#)

Storage

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (2AB02...)

[Biotin](#)

Sheep Anti Rabbit IgG (STAR36...)

[DyLight®488](#), [DyLight®549](#), [DyLight®649](#),
[DyLight®680](#), [DyLight®800](#)

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