

Anti-AICDA Picoband Antibody
Catalog # ABO12820**Specification**

Anti-AICDA Picoband Antibody - Product Information

Application	WB
Primary Accession	Q9GZX7
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for AICDA detection. Tested with WB, Direct ELISA in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-AICDA Picoband Antibody - Additional Information

Gene ID 57379

Other Names

Single-stranded DNA cytosine deaminase, 3.5.4.38, Activation-induced cytidine deaminase, Cytidine aminohydrolase, AICDA, AID

Application Details

Western blot, 0.1-0.5 µg/ml
 Direct ELISA, 0.1-0.5 µg/ml

Subcellular Localization

Nucleus.

Tissue Specificity

Strongly expressed in lymph nodes and tonsils.

Contents

Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Na₃.

Immunogen

E. coli-derived human AICDA recombinant protein (Position: A91-T195).

Cross Reactivity

No cross reactivity with other proteins.

Storage

At -20°C; for one year. After r° Constitution, at 4°C; for one month. It°Can also be aliquotted and stored frozen at -20°C; for a longer time. Avoid repeated freezing and

thawing.

Anti-AICDA Picoband Antibody - Protein Information

Name AICDA

Synonyms AID

Function

Single-stranded DNA-specific cytidine deaminase. Involved in somatic hypermutation (SHM), gene conversion, and class-switch recombination (CSR) in B-lymphocytes by deaminating C to U during transcription of Ig-variable (V) and Ig-switch (S) region DNA. Required for several crucial steps of B-cell terminal differentiation necessary for efficient antibody responses (PubMed:18722174, PubMed:21385873, PubMed:21518874, PubMed:27716525). May also play a role in the epigenetic regulation of gene expression by participating in DNA demethylation (PubMed:21496894).

Cellular Location

Nucleus. Cytoplasm, cytosol Note=Predominantly cytosolic (PubMed:21385873). In the presence of MCM3AP/GANP, relocates to the nucleus (By similarity) {ECO:0000250|UniProtKB:Q9WVE0, ECO:0000269|PubMed:21385873}

Tissue Location

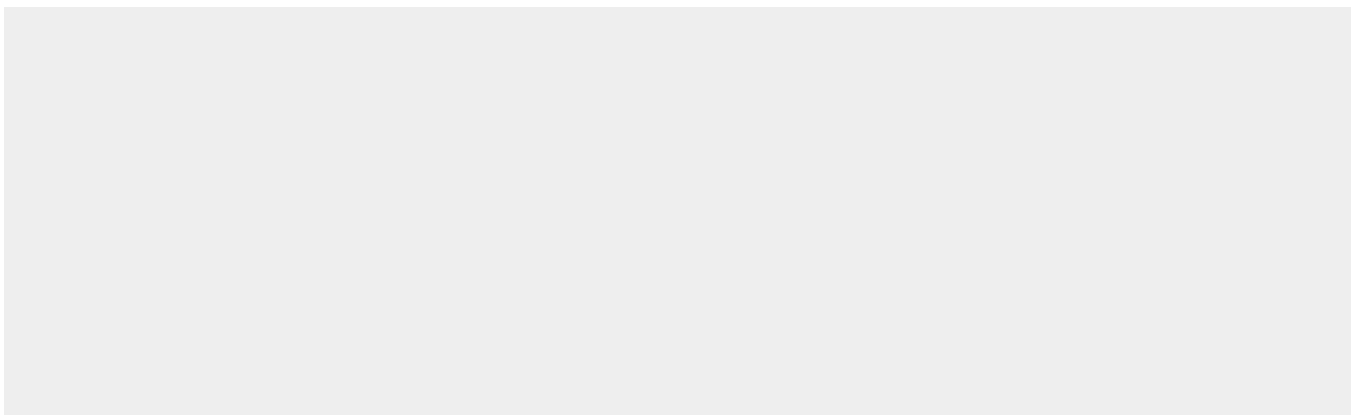
Strongly expressed in lymph nodes and tonsils.

Anti-AICDA Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-AICDA Picoband Antibody - Images



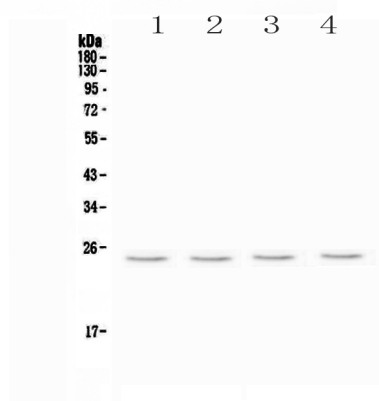


Figure 1. Western blot analysis of AICDA using anti-AICDA antibody (ABO12820).

Anti-AICDA Picoband Antibody - Background

Activation-induced cytidine deaminase, also known as AICDA and AID, is a 24 kDa enzyme which in humans is encoded by the AICDA gene. This gene encodes a RNA-editing deaminase that is a member of the cytidine deaminase family. The protein is involved in somatic hypermutation, gene conversion, and class-switch recombination of immunoglobulin genes. Defects in this gene are the cause of autosomal recessive hyper-IgM immunodeficiency syndrome type 2 (HIGM2).