

AICDA / AID Antibody (C-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS11210**Specification**

AICDA / AID Antibody (C-Terminus) - Product Information

Application	ICC, IF, WB, IHC
Primary Accession	O9GZX7
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	24kDa KDa

AICDA / AID Antibody (C-Terminus) - Additional Information**Gene ID** 57379**Other Names**

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

Target/Specificity

peptide corresponding to 14 amino acids near the carboxy-terminus of human AID

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions

AICDA / AID Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

AICDA / AID Antibody (C-Terminus) - 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, relocalizes to the nucleus (By similarity) {ECO:0000250|UniProtKB:Q9WVE0, ECO:0000269|PubMed:21385873}

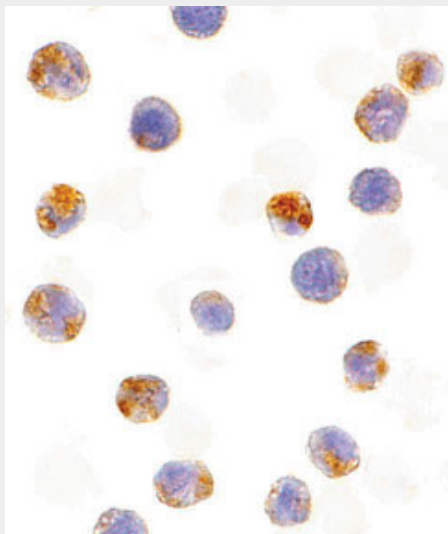
Tissue Location

Strongly expressed in lymph nodes and tonsils.

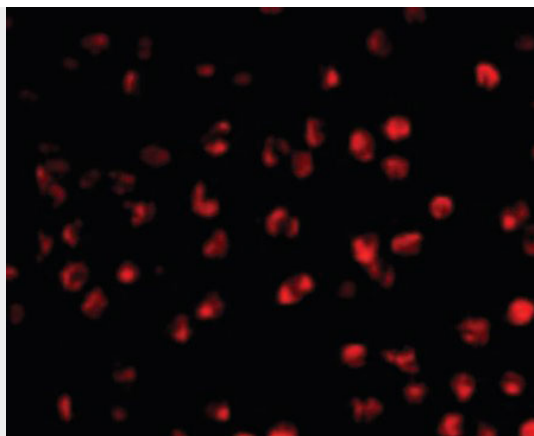
AICDA / AID Antibody (C-Terminus) - Protocols

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

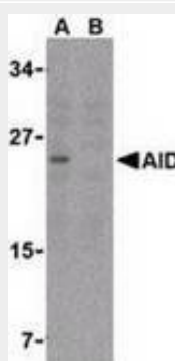
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

AICDA / AID Antibody (C-Terminus) - Images

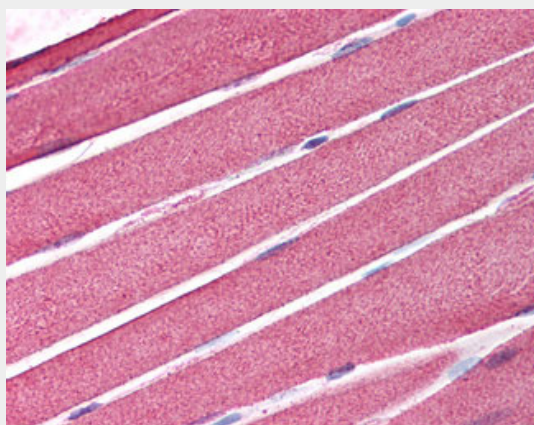
Immunocytochemistry of AID in Ramos cells with Ramos antibody at 10 ug/ml.



Immunofluorescence of AID in Ramos cells with AID antibody at 20 ug/ml.



Western blot of AID in Ramos whole cell lysate with AID antibody at 2 ug/ml in either the (A)...



Anti-AICDA antibody IHC of human skeletal muscle.

AICDA / AID Antibody (C-Terminus) - Background

Single-stranded DNA-specific cytidine deaminase. Involved in somatic hypermutation, gene conversion, and class- switch recombination in B-lymphocytes. Required for several crucial steps of B-cell terminal differentiation necessary for efficient antibody responses. May also play a role in the epigenetic regulation of gene expression by participating in DNA demethylation.

AICDA / AID Antibody (C-Terminus) - References

- Muto T.,et al.Genomics 68:85-88(2000).
- Revy P.,et al.Cell 102:565-575(2000).
- Martin A.,et al.Proc. Natl. Acad. Sci. U.S.A. 99:12304-12308(2002).

Roa S.,et al.Submitted (JAN-2004) to the EMBL/GenBank/DDBJ databases.
Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.