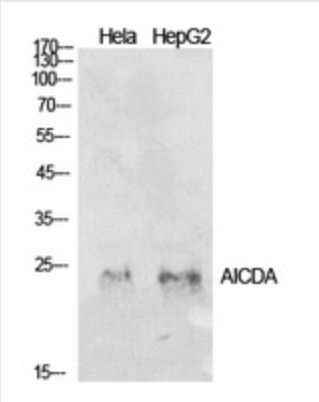
AICDA Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	AICDA, Polyclonal Antibody
Full Product Name	AICDA Antibody
Product Gene Name	anti-AICDA antibody
Product Synonym Names	AICDA; AID; Activation-induced cytidine deaminase; Cytidine aminohydrolase
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific peptide.
Concentration	1 mg/ml (lot specific)
Specificity	AICDA Antibody detects endogenous levels of AICDA protein.
Preparation and Storage	Stable at -20 degree C for at least 1 year.
Molecular Weight	23
OMIM	AB040431 mRNA
3D Structure	ModBase 3D Structure for Q9GZX7
Target Modification	Unmodified/Total
Immunogen	The antiserum was produced against synthesized peptide derived from the Internal region of human AICDA.
Immunogen Range	81-130
Applications Tested/Suitable for anti-AICDA antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-AICDA antibody	WB: 1:500~1:1000 ELISA: 1:10000
Related Product Information for anti-AICDA antibody	MBS9507420 is an antibody targeting AICDA. Also known as AICDA Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-AICDA antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-AICDA antibody
Western Blot analysis of extracts from Hela, HepG2 cells using AICDA Antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AICDA. It may not necessarily be applicable to this product.

NCBI GI #	1057867551
NCBI GeneID	57379
NCBI Accession #	NP_001317272.1
UniProt Primary Accession #	Q9GZX7
UniProt Secondary Accession #	Q6QJ81; Q8NFC1
UniProt Related Accession #	Q9GZX7
GenBank Nucleotide #	NM_001330343.1
NCBI Official Full Name	single-stranded DNA cytosine deaminase isoform 2
NCBI Official Synonym Full Names	activation induced cytidine deaminase
NCBI Official Symbol	AICDA
NCBI Official Synonym Symbols	AID; ARP2; CDA2; HIGM2; HEL-S-284
UniProt Protein Name	Single-stranded DNA cytosine deaminase
UniProt Synonym Protein Names	Activation-induced cytidine deaminase; AID; Cytidine aminohydrolase
Protein Family	Single-stranded DNA cytosine deaminase
UniProt Gene Name	AICDA
UniProt Synonym Gene Names	AID; AID
NCBI Protein Information	single-stranded DNA cytosine deaminase
NCBI Summary for AICDA	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). [provided by RefSeq, Feb 2009]
UniProt Comments for AICDA	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).

Research Articles on AICDA	**1.** The binding and catalytic behavior of purified AID was tested on DNA/RNA hybrid substrates bearing either random sequences or GC-rich sequences simulating Ig S regions. AID exhibited a higher affinity for binding DNA/RNA hybrid substrates made of S region sequences, than any other DNA substrates. In the absence of any other cellular processes or factors, AID itself favors binding and mutating S-region DNA/RNA hybrids.
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