Best Tools for immunology Research

AID Polyclonal Antibody

Catalog No :	YT5566
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	AID
Fields :	>>Intestinal immune network for IgA production;>>Primary immunodeficiency
Gene Name :	AICDA
Protein Name :	Activation-induced cytidine deaminase
Human Gene Id :	57379
Human Swiss Prot No :	Q9GZX7
Mouse Gene Id :	11628
Mouse Swiss Prot No :	Q9WVE0
Immunogen :	The antiserum was produced against synthesized peptide derived from the Internal region of human AICDA. AA range:81-130
Specificity :	AID Polyclonal Antibody detects endogenous levels of AID protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC: 1:100-1:300. ELISA: 1:10000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 24kD

Cell Pathway : Intestinal immune network for IgA production;Primary immunodeficiency;

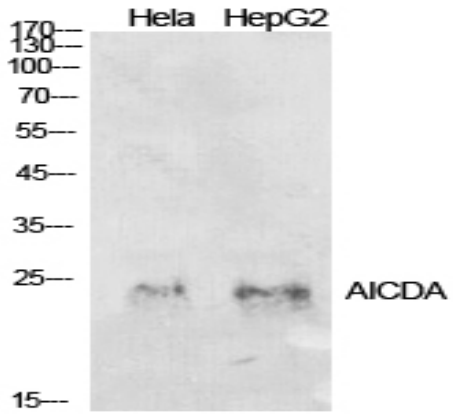
Background : This gene encodes a RNA-editing deaminase that is a member of the cytidine deaminase family. The protein is involved in somatic hypermutation, gene conversion, and class-switch recombination of immunoglobulin genes. Defects in this gene are the cause of autosomal recessive hyper-IgM immunodeficiency syndrome type 2 (HIGM2). [provided by RefSeq, Feb 2009],

Function : catalytic activity:Cytidine + H(2)O = uridine + NH(3).,cofactor:Zinc.,disease:Defects in AICDA are the cause of autosomal recessive hyper-IgM immunodeficiency syndrome type 2 (HIGM2) [MIM:605258]. HIGM2 is characterized by normal or elevated serum IgM levels with absence of IgG, IgA, and IgE, resulting in a profound susceptibility to bacterial infections. HIGM2 causes the absence of Ig class switch recombination (CSR), the lack of Ig somatic hypermutations, and lymph node hyperplasia caused by the presence of giant germinal centers.,function:RNA-editing deaminase involved in somatic hypermutation, gene conversion, and class-switch recombination. Required for several crucial steps of B-cell terminal differentiation necessary for efficient antibody responses.,online information:AICDA mutation db,similarity:Belongs to the cytidine and deoxycytidylate deaminase family.,tissue specificity:Str

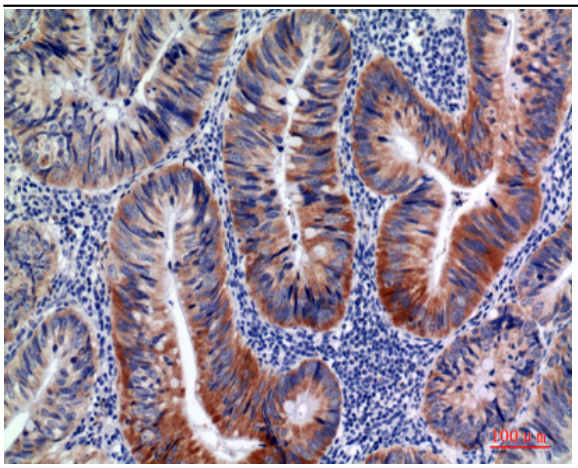
Subcellular Location : Nucleus . Cytoplasm . Predominantly cytoplasmic (PubMed:21385873). In the presence of MCM3AP/GANP, relocalizes to the nucleus (By similarity). .

Expression : Strongly expressed in lymph nodes and tonsils.

Products Images



Western Blot analysis of Hela, HepG2 cells using AID Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded human-colon-cancer, antibody was diluted at 1:100