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Datasheet for ABIN499233
anti-AICDA antibody (C-Term)

3 Images

1 Publication

Overview

Quantity:	0.1 mg
Target:	AICDA
Binding Specificity:	C-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AICDA antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	A Peptide corresponding to 14 amino acids near the carboxy-terminus of Human AID
Isotype:	IgG
Specificity:	This antibody recognizes AID (C-term).
Purification:	Affinity chromatography purified via peptide column

Target Details

Target:	AICDA
Alternative Name:	AICDA / AID (AICDA Products)
Background:	Activation-induced cytidine deaminase (AID) was initially discovered as a homolog of the apolipoprotein B RNA-editing cytidine deaminase 1 (APOBEC1) that showed cytidine deaminase

Target Details

properties in stimulated B cell lines (1). It is necessary for somatic hypermutation and class switch recombination in B cells (2), but inappropriate or dysregulated expression AID is often found in tumors and B cell neoplasms (2,3). Although it is structurally and functionally similar to the APOBEC proteins (reviewed in 4), it appears unlikely that AID deaminates dC to dU residues in HIV cDNA as does APOBEC3G (5). Synonyms: Activation-induced cytidine deaminase, Cytidine aminohydrolase

Gene ID: 57379

NCBI Accession: [NP_065712](#)

UniProt: [Q9GZX7](#)

Pathways: [Cellular Response to Molecule of Bacterial Origin](#), [Regulation of Actin Filament Polymerization](#), [Production of Molecular Mediator of Immune Response](#)

Application Details

Application Notes: ELISA. Western Blot: AID antibody can be used for detection of AID at 1 - 2 µg/mL. Whole cell lysate from Ramos cells can be used as positive control. Immunocytochemistry.
Other applications not tested.
Optimal dilutions are dependent on conditions and should be determined by the user.

Restrictions: For Research Use only

Handling

Buffer: PBS containing 0.02 % Sodium Azide as preservative

Preservative: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

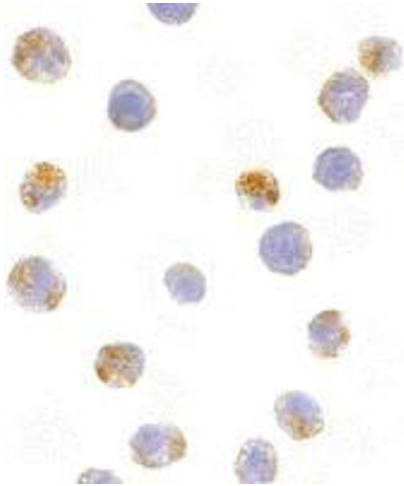
Storage Comment: Store undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.

Publications

Product cited in: Milillo, Molinaro, Costanzi, Vischini, La Carpia, La Greca, Rigante, Gambaro, Gurrieri, Sangiorgi: "Defective activation of the MAPK/ERK pathway, leading to PARP1 and DNMT1 dysregulation, is

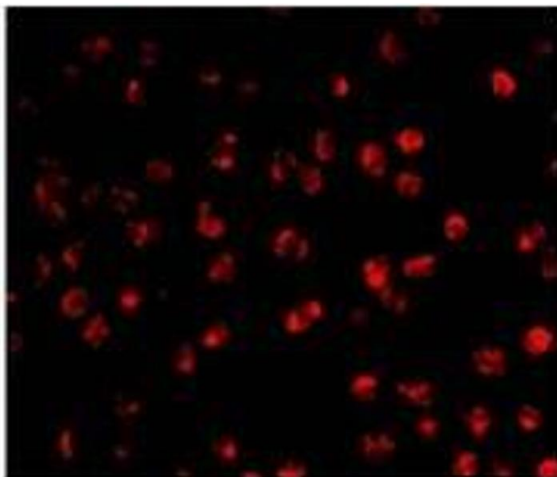
a common defect in IgA nephropathy and Henoch-Schönlein purpura." in: **Journal of nephrology**, Vol. 31, Issue 5, pp. 731-741, (2018) ([PubMed](#)).

Images



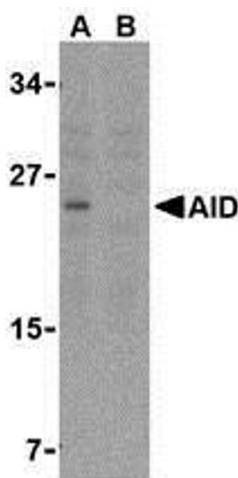
Immunofluorescence

Image 1. Immunocytochemistry of AID in Ramos cells with AP30028PU-N Ramos antibody at 10 µg/ml.



Immunofluorescence

Image 2. Immunofluorescence of AID in Ramos cells with AP30028PU-N Ramos antibody at 20 µg/ml.



Western Blotting

Image 3. Western blot analysis of AID in Ramos whole cell lysate with AP30028PU-N AID antibody at 2 µg/ml in either the (A) absence or (B) presence of blocking peptide.