abcam

Product datasheet

Anti-AICDA antibody ab183618

2 Images

Overview

Product name	Anti-AICDA antibody
Description	Rabbit polyclonal to AICDA
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P
Species reactivity	**Reacts with:** Human **Predicted to work with:** Chimpanzee
Immunogen	Recombinant fragment within Human AICDA aa 67-198. The exact sequence is proprietary. Database link: Q9GZX7
Positive control	K562, THP1 and HL60 whole cell lysates; SAS xenograft.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: PBS, 20% Glycerol
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab183618** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/3000. Predicted molecular weight: 23 kDa.

Application	Abreviews	Notes
IHC-P		1/100 - 1/1000.

Target

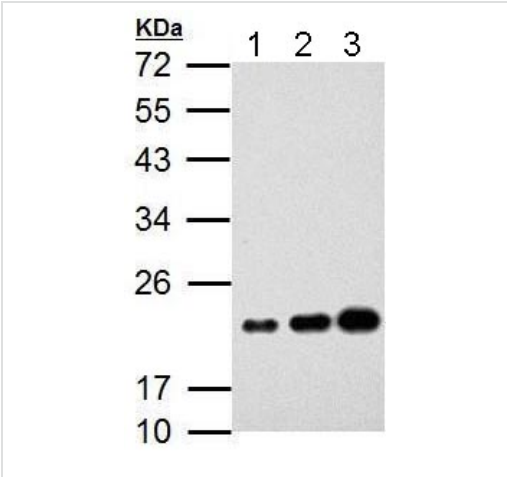
Function
RNA-editing deaminase involved in somatic hypermutation, gene conversion, and class-switch recombination. Required for several crucial steps of B-cell terminal differentiation necessary for efficient antibody responses.

Tissue specificity
Strongly expressed in lymph nodes and tonsils.

Involvement in disease
Defects in AICDA are the cause of hyper-IgM immunodeficiency syndrome type 2 (HIGM2) [MIM:605258]; also known as hyper-IgM syndrome 2. HIGM2 is an autosomal recessive disorder 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.

Sequence similarities
Belongs to the cytidine and deoxycytidylate deaminase family.

Images



Western blot - Anti-AICDA antibody (ab183618)

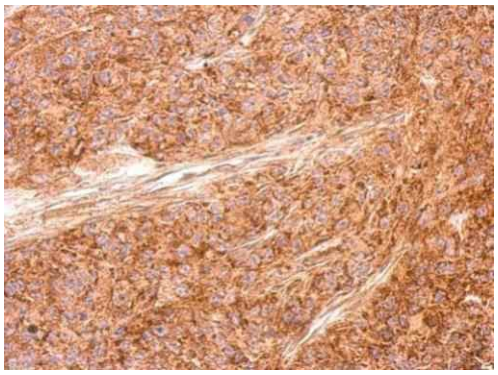
All lanes : Anti-AICDA antibody (ab183618) at 1/1000 dilution

Lane 1 : K562 whole cell lysate
Lane 2 : THP1 whole cell lysate
Lane 3 : HL60 whole cell lysate

Lysates/proteins at 30 µg per lane.

Predicted band size: 23 kDa

12% SDS PAGE



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-AICDA antibody (ab183618)

Immunohistochemical analysis of paraffin embedded SAS xenograft labeling AICDA with ab183618 at 1/500 dilution.

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