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.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As |

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: 79.99% PBS, 20% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Application	Abreviews	Notes
WB		1/500 - 1/3000. Predicted molecular weight: 23 kDa.
IHC-P		1/100 - 1/1000.

Target

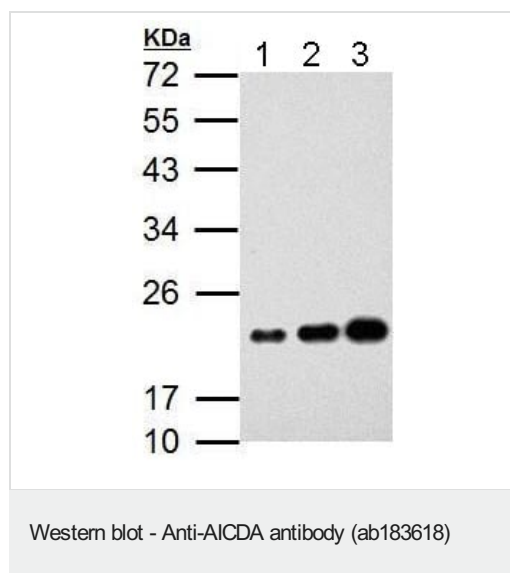|	
Function	RNA-editing deaminase involved in somatic hypermutation, gene conversion, and class-switch recombination. Required for several crucial steps of B-cell terminal differentiation necessary for efficient antibody responses.
Tissue specificity	Strongly expressed in lymph nodes and tonsils.
Involvement 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
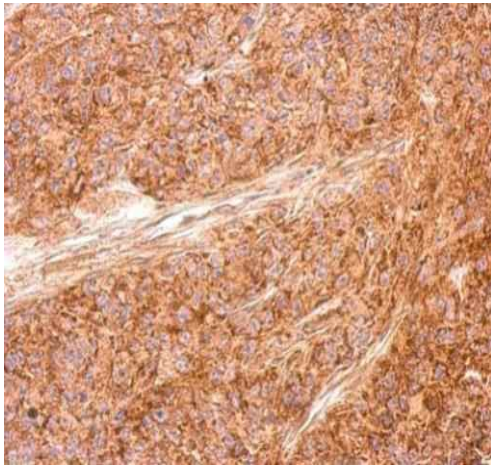
Lane 1 : K562 whole cell lysate
Lane 2 : THP1 whole cell lysate
Lane 3 : HL60 whole cell lysate

Lysates/proteins at 30 µg per lane.

Predicted band size: 23 kDa

12% SDS PAGE

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

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

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