

Product datasheet

Anti-AICL antibody [EPR22061] ab221158

Recombinant RabMAb

6 Images

Overview

Product name	Anti-AICL antibody [EPR22061]
Description	Rabbit monoclonal [EPR22061] to AICL
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF, IP
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment within Human AICL aa 1 to the C-terminus. The exact sequence is proprietary. Database link: Q92478
Positive control	WB: U937 whole cell lysate. IHC-P: Human spleen and non-Hodgkin's lymphoma tissues. ICC/IF: U937 cells. IP: U937 whole cell lysate.
General notes	This product was previously labelled as CLEC2B

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information [see here](#).

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#).

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise[™] guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

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, as well as 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: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR22061
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab221158** 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		1/1000. Predicted molecular weight: 17 kDa.
IHC-P		1/2000. Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.
ICC/IF		1/50.
IP		1/30.

Target

Relevance

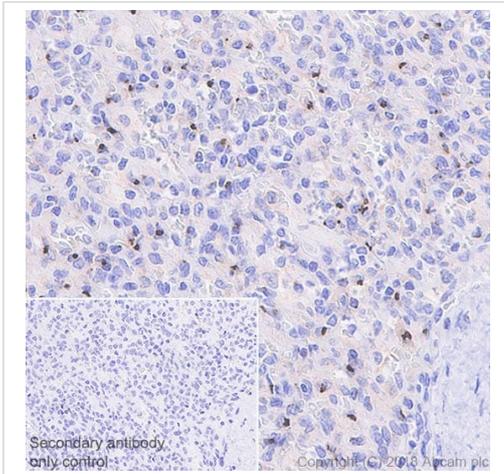
This gene encodes a member of the C-type lectin/C-type lectin-like domain (CTL/CTLD) superfamily. Members of this family share a common protein fold and have diverse functions, such as cell adhesion, cell-cell signalling, glycoprotein turnover, and roles in inflammation and immune response. The encoded type 2 transmembrane protein may function as a cell activation antigen. An alternative splice variant has been described but its full-length sequence has not been determined. This gene is closely linked to other CTL/CTLD superfamily members on

chromosome 12p13 in the natural killer gene complex region. [Entrez Gene]

Cellular localization

Membrane; Single-pass type II membrane protein

Images

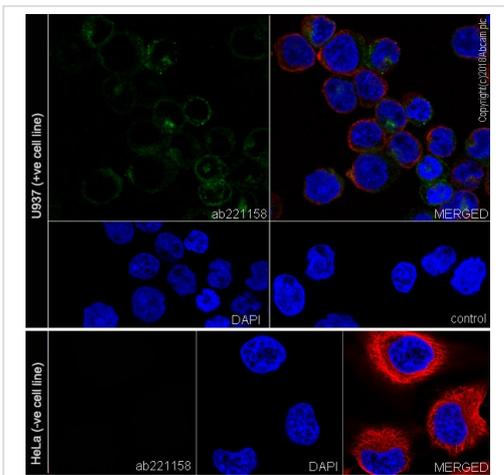


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-AICL antibody [EPR22061] (ab221158)

Immunohistochemical analysis of paraffin-embedded human spleen tissue labeling AICL with ab221158 at 1/2000 dilution, followed by Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) Ready to use. Positive staining on human spleen (PMID: 9038101; PMID: 23929856). Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) Ready to use.

Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-AICL antibody [EPR22061] (ab221158)

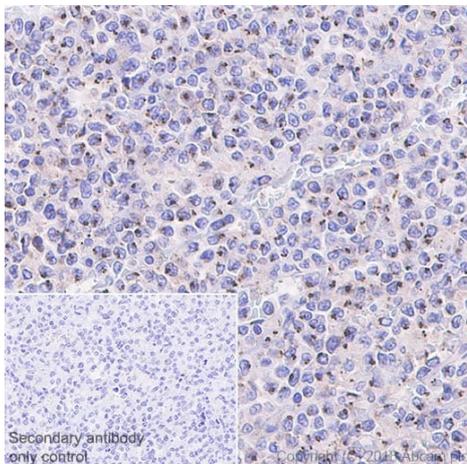
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized U937 (human histiocytic lymphoma cell line) and HeLa (human epithelial cell line from cervix adenocarcinoma) cells labeling AICL with ab221158 at 1/100 dilution followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor[®] 488) (ab150077) secondary antibody at 1/1000 dilution (green).

Confocal image showing cytoplasmic and membranous staining in U937 cell line.

Negative control: HeLa (PMID: 23929856).

The nuclear counter stain is DAPI (blue). Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor[®] 594) (ab195889) (red) at 1/200 dilution.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (Alexa Fluor[®] 488) (ab150077) secondary antibody at 1/1000 dilution.

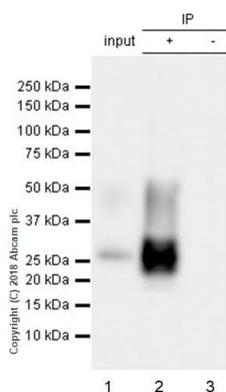


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-AICL antibody [EPR22061] (ab221158)

Immunohistochemical analysis of paraffin-embedded human non-Hodgkin's lymphoma tissue labeling AICL with ab221158 at 1/2000 dilution, followed by Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) Ready to use. Positive staining on human non-Hodgkin's lymphoma (PMID: 23929856). Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) Ready to use.

Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.



Immunoprecipitation - Anti-AICL antibody [EPR22061] (ab221158)

AICL was immunoprecipitated from 0.35 mg of U937 (human histiocytic lymphoma cell line) whole cell lysate with ab221158 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab221158 at 1/500 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366), was used for detection at 1/10000 dilution.

Lane 1: U937 whole cell lysate 10 µg (Input).

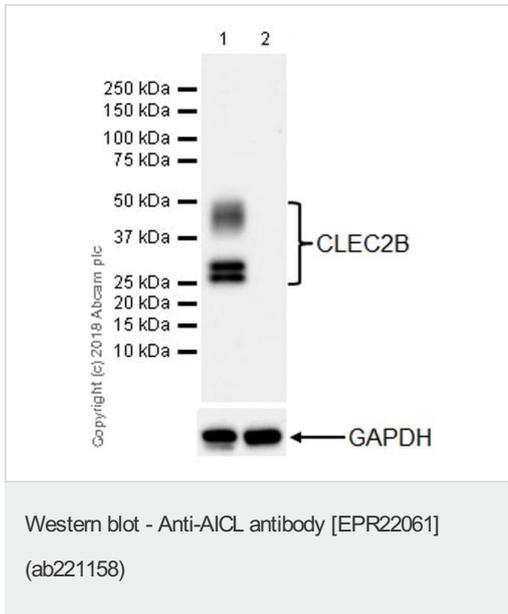
Lane 2: ab221158 IP in U937 whole cell lysate.

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab221158 in U937 whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 3 seconds.

The expression profile observed is due to glycosylation as described in the literature (PMID: 23929856).



All lanes : Anti-AICL antibody [EPR22061] (ab221158) at 1/1000 dilution

Lane 1 : U937 (human histiocytic lymphoma cell line) whole cell lysate

Lane 2 : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 17 kDa

Observed band size: 26-28,45 kDa [why is the actual band size different from the predicted?](#)

Blocking/Dilution buffer: 5% NFDm/TBST.

The expression profile observed is due to glycosylation as described in the literature (PMID: 23929856).

Negative control: HeLa (PMID 23929856).

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-AICL antibody [EPR22061] (ab221158)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- We investigate all quality concerns to ensure our products perform to the highest standards

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