abcam

ab191401

Anti-Ctip1/BCL-11A antibody [EPR14943-44]

Anti-Ctip1/BCL-11A antibody [EPR14943-44] (ab191401) is a rabbit monoclonal antibody detecting Ctip1/BCL-11A in **Western Blot, Flow Cytometry (Intra), IP, IHC-P, ICC/IF, ChIC/CUT&RUN sequencing**. Suitable for **Human, Rat**.

- KO validated for confirmed specificity
- Biophysical QC for unrivalled batch-batch consistency

Recombinant | RabMAb | Advanced Validation | KO Validated | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR14943-44
Purification technique	Affinity purification Protein A
Specificity	Some optimisation may be required for detection of the target protein due to low levels of endogenous expression in some samples. Please see images below for suitable positive controls.
Concentration	0.934 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Human
Dilution info	1/50
Notes	-

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Mouse
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	1/10000 - 1/50000
Notes	-

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Mouse
Dilution info	-

Notes	-

ICC/IF

Tested

Species	Rat
Dilution info	1/450
Notes	-

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Mouse
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/200
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Mouse
Dilution info	-
Notes	-

IHC-P

Tested

Species	Rat
Dilution info	1/100
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Human
Dilution info	1/100
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Predicted

Species	Mouse
Dilution info	-
Notes	-

ChIC/CUT&RUN-seq

Tested

Species	Human
Dilution info	-
Notes	-

Expected

Species	Rat

Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Mouse
Dilution info	-
Notes	-

Target data

See full target information BCL11A

Function	Transcription factor (PubMed:16704730, PubMed:29606353). Associated with the BAF SWI/SNF chromatin remodeling complex (PubMed:23644491, PubMed:39607926). Binds to the 5'-TGACCA-3' sequence motif in regulatory regions of target genes, including a distal promoter of the HBG1 hemoglobin subunit gamma-1 gene (PubMed:29606353, PubMed:39423807). Involved in regulation of the developmental switch from gamma- to beta-globin, probably via direct repression of HBG1; hence indirectly repressing fetal hemoglobin (HbF) level (PubMed:26375765, PubMed:29606353, PubMed:39423807, PubMed:39607926). Involved in brain development (PubMed:27453576). May play a role in hematopoiesis (By similarity). Essential factor in lymphopoiesis required for B-cell formation in fetal liver (By similarity). May function as a modulator of the transcriptional repression activity of NR2F2 (By similarity).

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

What is this antibody validated in?
Anti-Ctip1/BCL-11A antibody [EPR14943-44] (ab191401) is a rabbit recombinant monoclonal antibody and is validated for use in Western Blot (WB), Flow Cytometry (Intra), Immunoprecipitation (IP), Immunohistochemistry (IHC-P), Immunocytochemistry/immunofluorescence (ICC/IF) and ChIC/CUT&RUN sequencing in Human, Rat samples.

What is the molecular weight of Ctip1/BCL-11A?
Anti-Ctip1/BCL-11A [EPR14943-44] (ab191401) specifically detects a band for Ctip1/BCL-11A (UniProt: Q9H165) at a molecular weight of 91kDa.

Specificity confirmed
The specificity of Anti-Ctip1/BCL-11A antibody [EPR14943-44] (ab191401) has been confirmed by Western blot testing in BCL11A Knockout HAP1 cells.

Other related products
We have a range of other formats of antibody clone [EPR14943-44] also available for your convenience: ab191401, Carrier free - ab242406

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

What are the advantages of a recombinant monoclonal antibody?
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 batch production

For more information, read more on recombinant antibodies.

Trial sizes available!
Test your antibody or perform pre-screening before committing to a larger quantity. Sold in 20µl. Discover our selection of trial-size antibodies.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

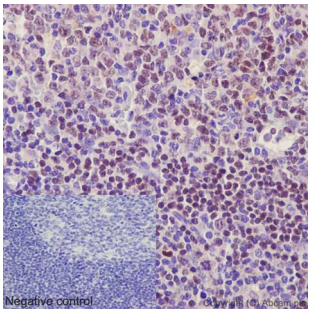
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

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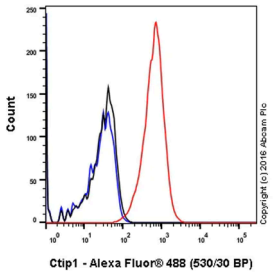
11 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ctip1/BCL-11A antibody [EPR14943-44] (ab191401)

Ctip1/BCL-11A Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Ctip1/BCL-11A antibody

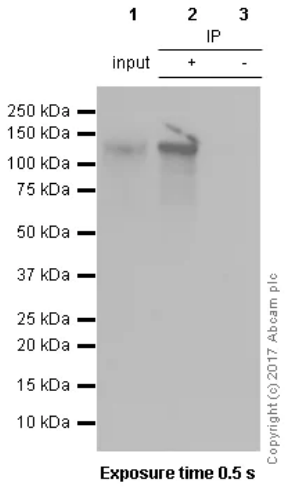
Immunohistochemical analysis of paraffin-embedded, Human tonsil tissue labeling Ctip1/BCL-11A with ab191401 at a 1/100 dilution (19 µg/ml). Counter stained with hematoxylin. In the negative control PBS was used instead of primary antibody.
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-Ctip1/BCL-11A antibody [EPR14943-44] (ab191401)

Ctip1/BCL-11A Flow Cytometry (Intracellular) staining using rabbit Anti-Ctip1/BCL-11A antibody

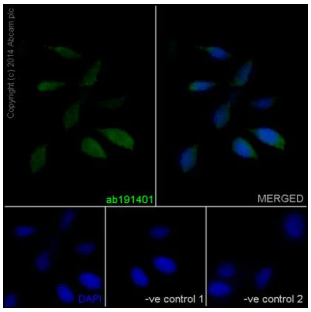
Intracellular Flow Cytometry analysis of Jurkat (human acute T cell leukemia) labelling Ctip1/BCL-11A with purified ab191401 at 1/200 (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. Alexa Fluor® 488 goat anti-rabbit IgG (1/2000) was used as the secondary antibody. Black - Isotype control, rabbit monoclonal IgG. Blue - Unlabelled control, cells without incubation with primary and secondary antibodies.



Immunoprecipitation - Anti-Ctip1/BCL-11A antibody [EPR14943-44] (ab191401)

ab191401 (purified) at 1/500 dilution (2.1 ©:g/ml) immunoprecipitating Ctip1 / BCL-11A in Raji whole cell lysate.
Lane 1 (input): Raji(Human Burkitt's lymphoma B lymphocyte) whole cell lysate 10©:g
Lane 2 (+): ab191401 & Raji whole cell lysate
Lane 3 (-): Rabbit monoclonal IgG (ab172730) instead of ab191401 in Raji whole cell lysate
For western blotting, VeriBlot for IP secondary antibody (HRP) (ab131366) was used as the secondary antibody at 1/1000 dilution.
Blocking and diluting buffer: 5% NFDM /TBST .
All lanes:
Immunoprecipitation - Anti-Ctip1/BCL-11A antibody [EPR14943-44] (ab191401)

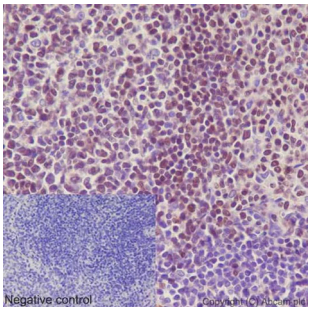
Predicted band size: 91 kDa



Immunocytochemistry/ Immunofluorescence - Anti-Ctip1/BCL-11A antibody [EPR14943-44] (ab191401)

Ctip1/BCL-11A Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-Ctip1/BCL-11A antibody

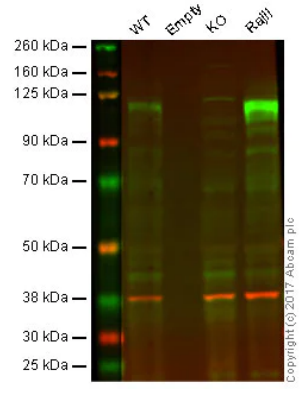
Immunofluorescence analysis of, paraformaldehyde-fixed, rat C6 cells labeling Ctip1/BCL-11A with ab191401 at a 1/450 dilution (4 ug/ml). As secondary antibody goat anti-rabbit IgG (Alexa Fluor®488) ab150077 was used at a 1/200 dilution. In blue DAPI staining. In the negative controls cells were treated with anti-BCL11A at a 1/450 dilution as primary antibody and goat anti-mouse IgG (Alexa Fluor®594) at a 1/400 dilution as secondary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ctip1/BCL-11A antibody [EPR14943-44] (ab191401)

Ctip1/BCL-11A Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Ctip1/BCL-11A antibody

Immunohistochemical analysis of paraffin-embedded, rat spleen tissue labeling Ctip1/BCL-11A with ab191401 at a 1/100 dilution (19 µg/ml). Counter stained with hematoxylin. In the negative control PBS was used instead of primary antibody.
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



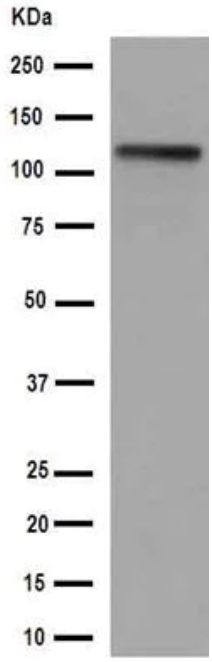
Western blot - Anti-Ctip1/BCL-11A antibody [EPR14943-44] (ab191401)

Ctip1/BCL-11A Western blot staining using rabbit Anti-Ctip1/BCL-11A antibody

Lane 1: Wild type HAP1 whole cell lysate (20 µg)
Lane 2: Empty
Lane 3: BCL11A (Ctip1) knockout HAP1 whole cell lysate (20 µg)
Lane 4: Raji whole cell lysate (20 µg)
Lanes 1 - 4: Merged signal (red and green). Green - ab191401 observed at 91 kDa. Red - loading control, ab8245, observed at 37 kDa.

ab191401 was shown to recognize BCL11A (Ctip1) in wild type cells as signal was lost at the expected MW in BCL11A (Ctip1) knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and BCL11A (Ctip1) knockout samples were subjected to SDS-PAGE. ab191401 and ab8245 (Mouse anti-GAPDH loading control) were incubated overnight at 4°C at 1000 dilution and 1/10000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed ab216773 and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed ab216776 secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.
All lanes:
Western blot - Anti-Ctip1/BCL-11A antibody [EPR14943-44] (ab191401)

Predicted band size: 91 kDa



Western blot - Anti-Ctip1/BCL-11A antibody [EPR14943-44] (ab191401)

All lanes:
Western blot - Anti-Ctip1/BCL-11A antibody [EPR14943-44] (ab191401) at 1/50000 dilution

All lanes:
293 cell lysate at 10 µg

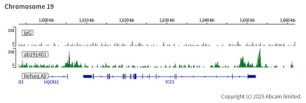
Secondary

All lanes:
goat anti-rabbit IgG, (H+L), peroxidase conjugated at 1/1000 dilution

Developed using the ECL technique.

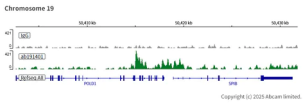
Predicted band size: 91 kDa

Observed band size: 120 kDa



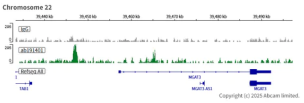
ChIC/CUT&RUN sequencing - Anti-Ctip1/BCL-11A antibody [EPR14943-44] (ab191401)

ChIC/CUT&RUN was performed using a pAG-MNase at a final concentration of 700 ng/mL, 2.5 x 10^5 Raji (human Burkitt's lymphoma B lymphocyte) cells and 5 µg of ab191401 [EPR14943-44]. The resulting DNA was sequenced on the Illumina NovaSeq 6000 to a depth of 10 million reads. The negative IgG control ab172730 is also shown.
The University of Geneva owns patents relevant to ChIC (Chromatin Immuno-Cleavage) methods.



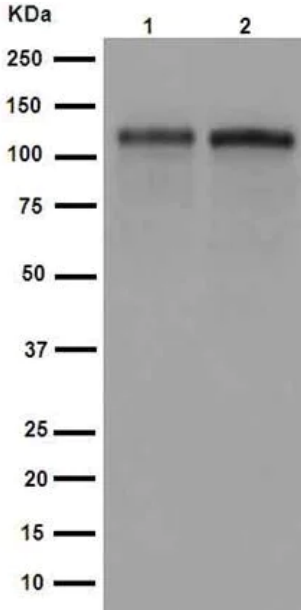
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Western blot - Anti-Ctip1/BCL-11A antibody [EPR14943-44] (ab191401)

All lanes:
Western blot - Anti-Ctip1/BCL-11A antibody [EPR14943-44] (ab191401) at 1/50000 dilution

Lane 1:
Raji cell lysate at 20 µg

Lane 2:
Jurkat cell lysate at 20 µg

Secondary

All lanes:
goat anti-rabbit IgG, (H+L), peroxidase conjugated at 1/1000 dilution

Developed using the ECL technique.

Predicted band size: 91 kDa

Observed band size: 120 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.