abcam

ab240636

Anti-Ctip2 antibody [EPR23120-25]

Anti-Ctip2 antibody [EPR23120-25] (ab240636) is a rabbit monoclonal antibody detecting Ctip2 in **Western Blot, Flow Cytometry (Intra), IP, IHC-P, ICC/IF**. Suitable for **Human, Mouse, Rat**.

- Biophysical QC for unrivalled batch-batch consistency

Recombinant | RabMAb | 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	EPR23120-25
Purification technique	Affinity purification Protein A
Concentration	0.49 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Human
Dilution info	1/500

Notes	Perform heat-mediated antigen retrieval before commencing with IHC staining protocol.

Species	Mouse
Dilution info	1/500
Notes	Perform heat-mediated antigen retrieval before commencing with IHC staining protocol.

Species	Rat
Dilution info	1/500
Notes	Perform heat-mediated antigen retrieval before commencing with IHC staining protocol.

IP

Tested

Species	Human
Dilution info	1/30
Notes	-

Expected

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

WB

Tested

Species	Mouse
Dilution info	1/1000
Notes	-

Species	Rat
Dilution info	1/1000

Notes	-

Species	Human
Dilution info	1/1000
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/100
Notes	-

Expected

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

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/500
Notes	-

Expected

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

Target data

See full target information BCL11B

Function	Key regulator of both differentiation and survival of T-lymphocytes during thymocyte development in mammals. Essential in controlling the responsiveness of hematopoietic stem cells to chemotactic signals by modulating the expression of the receptors CCR7 and CCR9, which direct the movement of progenitor cells from the bone marrow to the thymus (PubMed:27959755). Is a regulator of IL2 promoter and enhances IL2 expression in activated CD4(+) T-lymphocytes (PubMed:16809611). Tumor-suppressor that represses transcription through direct, TFCOUP2-independent binding to a GC-rich response element (By similarity). May also function in the P53-signaling pathway (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-Ctip2 antibody [EPR23120-25] (ab240636) is a rabbit recombinant monoclonal antibody and is validated for use in Western Blot (WB), Flow Cytometry (Intra), Flow Cytometry (Flow Cyt), Immunoprecipitation (IP), Immunohistochemistry (IHC-P), Immunocytochemistry/immunofluorescence (ICC/IF) in Human, Mouse, Rat samples.

What is the molecular weight of Ctip2?
Anti-Ctip2 [EPR23120-25] (ab240636) specifically detects a band for Ctip2 (UniProt: Q9C0K0) at a molecular weight of 96kDa.

Other related products
We have a range of other formats of antibody clone [EPR23120-25] also available for your convenience: ab240636, Carrier free - ab269367, ab322910

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.

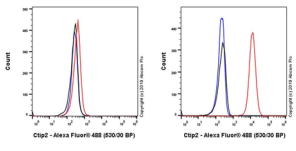
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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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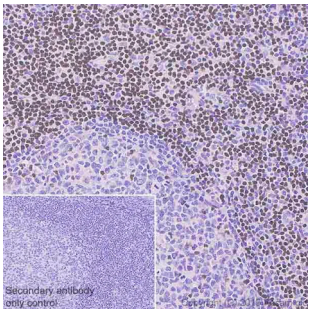
15 product images



Flow Cytometry (Intracellular) - Anti-Ctip2 antibody [EPR23120-25] (ab240636)

Ctip2 Flow Cytometry (Intracellular) staining using rabbit Anti-Ctip2 antibody

Intracellular flow cytometric analysis of 4% paraformaldehyde fixed, 90% methanol permeabilized Daudi (human Burkitt's lymphoma lymphoblast, Left) / Jurkat (human T cell leukemia T lymphocyte, Right) cells labeling Ctip2 with ab240636 at 1/500 dilution (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) at 1/2000 dilution was used as the secondary antibody.
Negative control: Daudi (PMID:23383087).

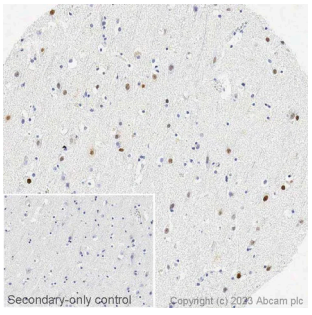


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ctip2 antibody [EPR23120-25] (ab240636)

Ctip2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Ctip2 antibody

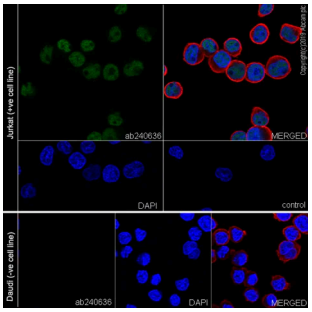
Immunohistochemical analysis of paraffin-embedded human tonsil tissue labeling Ctip2 with ab240636 at 1/500 dilution (0.96 µg/ml) followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP Polymer). Nuclear staining on human tonsil (PMID: 30089823) is observed. The section was incubated with ab240636 for 30 mins at RT. The immunostaining staining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with hematoxylin.
Secondary antibody only control: Secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP Polymer).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ctip2 antibody [EPR23120-25] (ab240636)

IHC image of Ctip2 staining in a section of formalin-fixed paraffin-embedded human hippocampus* performed on a Leica Biosystems BOND® RX instrument. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20mins. The section was then incubated with ab240636, 1ug/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset secondary-only control image is taken from an identical assay without primary antibody. For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times. *Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre



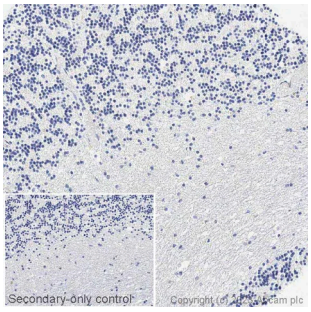
Immunocytochemistry/ Immunofluorescence - Anti-Ctip2 antibody [EPR23120-25] (ab240636)

Ctip2 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-Ctip2 antibody

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized Jurkat (human T cell leukemia T lymphocyte) and Daudi (human Burkitt's lymphoma lymphoblast) cells labeling Ctip2 with ab240636 at 1/100 dilution, followed by ab150077 AlexaFluor®488 Goat anti-Rabbit secondary antibody at 1/1000 dilution (Green). Confocal image showing nuclear staining in Jurkat cells.
Negative control: Daudi (PMID:23383087).

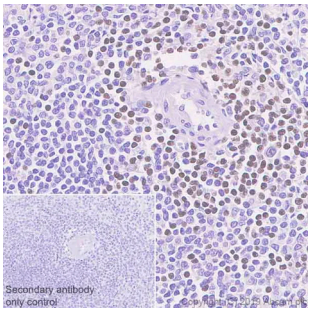
ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 (Red). The nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is ab150077 AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ctip2 antibody [EPR23120-25] (ab240636)

Negative control image: IHC image of Ctip2 staining in a section of formalin-fixed paraffin-embedded human cerebellum* performed on a Leica Biosystems BOND® RX instrument. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20mins. The section was then incubated with ab240636, 1ug/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset secondary-only control image is taken from an identical assay without primary antibody. For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times. *Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre

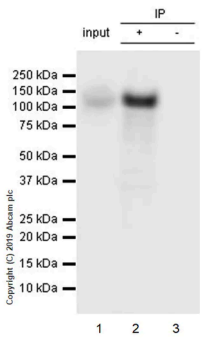


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ctip2 antibody [EPR23120-25] (ab240636)

Ctip2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Ctip2 antibody

Immunohistochemical analysis of paraffin-embedded human spleen tissue labeling Ctip2 with ab240636 at 1/500 dilution (0.96 µg/ml) followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP Polymer). Nuclear staining on human spleen (PMID: 30089823) is observed. The section was incubated with ab240636 for 30 mins at RT. The immunostaining staining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with hematoxylin.
Secondary antibody only control: Secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP Polymer).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.



Immunoprecipitation - Anti-Ctip2 antibody [EPR23120-25] (ab240636)

Ctip2 was immunoprecipitated from 0.35 mg Jurkat (human T cell leukemia T lymphocyte) whole cell lysate with ab240636 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab240636 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366) was used at 1/5000 dilution.
Lane 1: Jurkat whole cell lysate 10µg

Lane 2: ab240636 IP in Jurkat whole cell lysate

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab240636 in Jurkat whole cell lysate

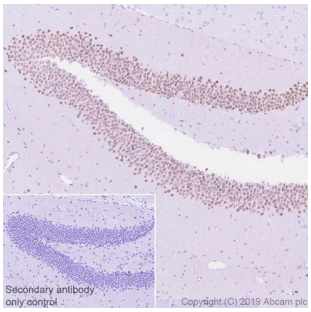
Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 1 second.

All lanes:
Immunoprecipitation - Anti-Ctip2 antibody [EPR23120-25] (ab240636)

Predicted band size: 96 kDa

Observed band size: 120 kDa

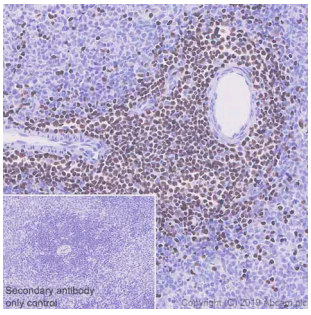


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ctip2 antibody [EPR23120-25] (ab240636)

Ctip2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Ctip2 antibody

Immunohistochemical analysis of paraffin-embedded mouse hippocampus tissue labeling Ctip2 with ab240636 at 1/500 dilution (0.96 µg/ml) followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP Polymer). Nuclear staining on mouse hippocampus (PMID: 19955470, PMID: 25757017) is observed. The section was incubated with ab240636 for 30 mins at RT. The immunostaining staining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with hematoxylin.
Secondary antibody only control: Secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP Polymer).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

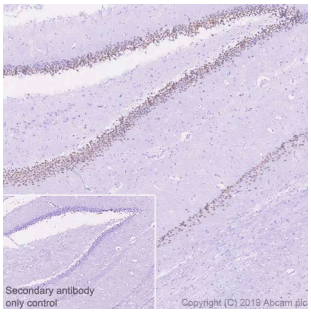


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ctip2 antibody [EPR23120-25] (ab240636)

Ctip2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Ctip2 antibody

Immunohistochemical analysis of paraffin-embedded rat spleen tissue labeling Ctip2 with ab240636 at 1/500 dilution (0.96 µg/ml) followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP Polymer). Nuclear staining on rat spleen (PMID: 30089823) is observed. The section was incubated with ab240636 for 30 mins at RT. The immunostaining staining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with hematoxylin.
Secondary antibody only control: Secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP Polymer).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.



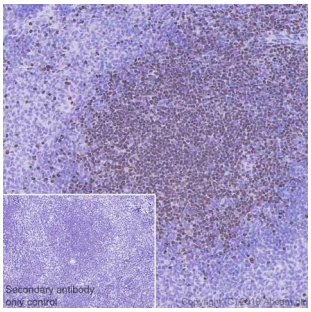
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ctip2 antibody [EPR23120-25] (ab240636)

Ctip2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Ctip2 antibody

Immunohistochemical analysis of paraffin-embedded rat hippocampus tissue labeling Ctip2 with ab240636 at 1/500 dilution (0.96 µg/ml) followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP Polymer). Nuclear staining on rat hippocampus (PMID: 19955470, PMID: 25757017) is observed. The section was incubated with ab240636 for 30 mins at RT. The immunostaining staining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP Polymer).

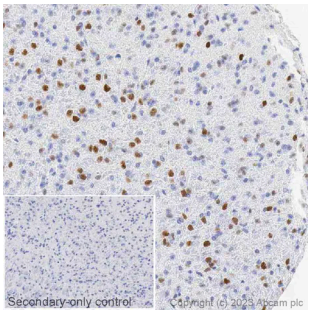
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ctip2 antibody [EPR23120-25] (ab240636)

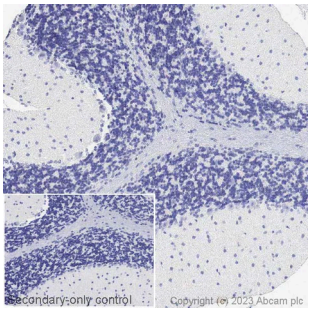
Immunohistochemical analysis of paraffin-embedded mouse spleen tissue labeling Ctip2 with ab240636 at 1/500 dilution (0.96 µg/ml) followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP Polymer). Nuclear staining on mouse spleen (PMID: 30089823) is observed. The section was incubated with ab240636 for 30 mins at RT. The immunostaining staining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with hematoxylin.
Secondary antibody only control: Secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP Polymer).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.



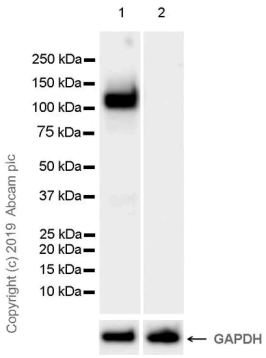
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ctip2 antibody [EPR23120-25] (ab240636)

IHC image of Ctip2 staining in a section of formalin-fixed paraffin-embedded mouse hippocampus performed on a Leica Biosystems BOND® RX instrument. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20mins. The section was then incubated with ab240636, 1ug/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset secondary-only control image is taken from an identical assay without primary antibody. For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ctip2 antibody [EPR23120-25] (ab240636)

Negative control image: IHC image of Ctip2 staining in a section of formalin-fixed paraffin-embedded mouse cerebellum performed on a Leica Biosystems BOND® RX instrument. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20mins. The section was then incubated with ab240636, 1ug/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset secondary-only control image is taken from an identical assay without primary antibody. For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Western blot - Anti-Ctip2 antibody [EPR23120-25] (ab240636)

Blocking and dilution buffer: 5% NFDM/TBST.
Exposure time: 5.5 seconds.

Negative control: Daudi (PMID: 23383087).

Fresh lysates are recommended.

The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 23383087, 24407555).

All lanes:
Western blot - Anti-Ctip2 antibody [EPR23120-25] (ab240636) at 1/1000 dilution

Lane 1:
Jurkat (human T cell leukemia T lymphocyte), whole cell lysate at 20 µg

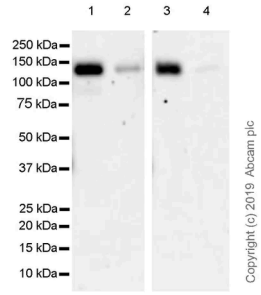
Lane 2:
Daudi (human Burkitt's lymphoma lymphoblast), whole cell lysate at 20 µg

Secondary

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

Predicted band size: 96 kDa

Observed band size: 120 kDa



Western blot - Anti-Ctip2 antibody [EPR23120-25] (ab240636)

Ctip2 Western blot staining using rabbit Anti-Ctip2 antibody

Blocking and dilution buffer: 5% NFDM/TBST.
Exposure time: 3 minutes.

The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 23383087, 24407555).

All lanes:
Western blot - Anti-Ctip2 antibody [EPR23120-25] (ab240636) at 1/1000 dilution

Lane 1:
Mouse hippocampus tissue lysate at 20 µg

Lane 2:
Mouse brain tissue lysate at 20 µg

Lane 3:
Rat hippocampus tissue lysate at 20 µg

Lane 4:
Rat brain tissue lysate at 20 µg

Secondary

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

Predicted band size: 96 kDa

Observed band size: 120 kDa

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