abcam

Product datasheet

Anti-Ctip1/BCL-11A antibody [18B12DE6] ab19489

敲除验证

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概述

产品名称	Anti-Ctip1/BCL-11A**抗体**[18B12DE6]
描述	**小鼠单克隆抗体**[18B12DE6] to Ctip1/BCL-11A
宿主	Mouse
经测试应用	**适用于:** IHC-P, WB, Flow Cyt
种属反应性	**与反应:** Mouse, Human
免疫原	Fusion protein corresponding to Human Ctip1/BCL-11A. Database link: **Q9H165**
表位	Epitope is in carboxyl terminus of CTIP1/Bcl11a (aa's 434-776).
常规说明	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

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C.
存储溶液	pH: 7.50 Preservative: 0.02% Sodium azide Constituent: HEPES
纯度	IgG fraction
克隆	**单克隆**
克隆编号	18B12DE6
同种型	IgG1
轻链类型	kappa

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab19489于以下的经测试应用**

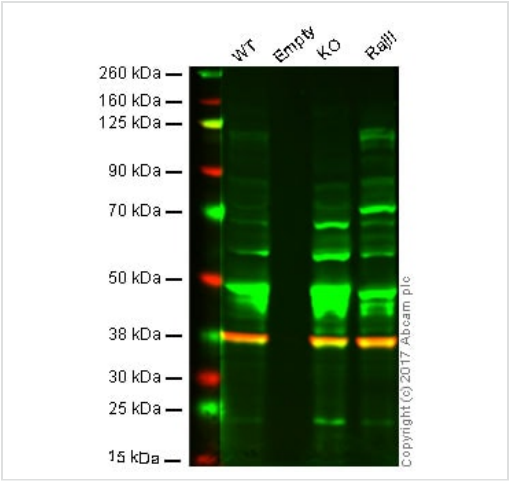
"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-P		Use a concentration of 4 µg/ml.
WB		1/1000. Predicted molecular weight: 91 kDa.
Flow Cyt		Use 2µg for 10^6 cells. **ab170190** - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

靶标

功能	Functions as a myeloid and B-cell proto-oncogene. May play important roles in leukemogenesis and hematopoiesis. An essential factor in lymphopoiesis, is required for B-cell formation in fetal liver. May function as a modulator of the transcriptional repression activity of ARP1.
组织特异性	Expressed at high levels in brain, spleen thymus, bone marrow and testis. Expressed in CD34-positive myeloid precursor cells, B-cells, monocytes and megakaryocytes. Expression is tightly regulated during B-cell development.
疾病相关	Note=Chromosomal aberrations involving BCL11A may be a cause of lymphoid malignancies. Translocation t(2;14)(p13;q32.3) causes BCL11A deregulation and amplification.
序列相似性	Contains 6 C2H2-type zinc fingers.
翻译后修饰	Sumoylated by SUMO1.
细胞定位	Cytoplasm. Nucleus. Associates with the nuclear body. Colocalizes with SUMO1 and SENP2 in nuclear speckles.

图片

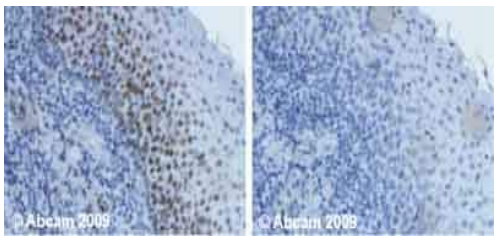


Western blot - Anti-Ctip1/BCL-11A antibody [18B12DE6] (ab19489)

Lane 1: Wild type HAP1 whole cell lysate (20 µg)
Lane 2: Empty (0 µg)
Lane 3: BCL11A (Ctip1) knockout HAP1 whole cell lysate (20 µg)
Lane 4: Raji whole cell lysate (20 µg)

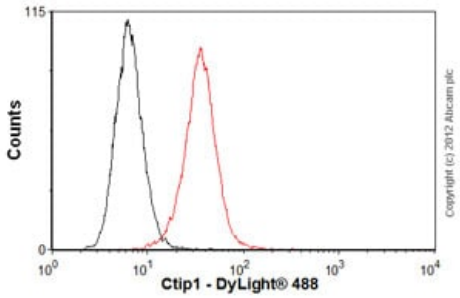
Lanes 1 - 4: Merged signal (red and green). Green - ab19489 observed at 91 kDa. Red - loading control, **ab181602**, observed at 37 kDa.

ab19489 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 Empty knockout samples were subjected to SDS-PAGE. ab19489 and **ab181602** (Rabbit anti GAPDH loading control) were incubated overnight at 4°C at 1000 dilution and 1/10000 dilution respectively. Blots were developed with Goat anti-Mouse IgG H&L (IRDye® 800CW) preabsorbed **ab216772** and Goat anti-Rabbit IgG H&L (IRDye® 680RD) preabsorbed **ab216777** secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ctip1/BCL-11A antibody [18B12DE6] (ab19489)

Human normal tonsil. Staining is localised to cytoplasm and nuclei. Left panel: with primary antibody at 4 ug/ml. Right panel: isotype control. Sections were stained using an automated system DAKO Autostainer Plus , at room temperature: sections were rehydrated and antigen retrieved with the Dako 3 in 1 AR buffers citrate EDTA pH 9.0 in a DAKO PT Link. Slides were peroxidase blocked in 3% H2O2 in methanol for 10 mins. They were then blocked with Dako Protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 min and detected with Dako envision flex amplification kit for mouse for 30 minutes. Colorimetric detection was completed with Diaminobenzidine for 5 minutes. Slides were counterstained with Haematoxylin and coverslipped under DePeX. Please note that for manual staining we recommend to optimize the primary antibody concentration and incubation time (overnight incubation), and amplification may be required.



Flow Cytometry - Anti-Ctip1/BCL-11A antibody [18B12DE6] (ab19489)

Overlay histogram showing Ramos cells stained with ab19489 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab19489, 2µg/1x10^6 cells) for 30 min at 22ºC. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (**ab96879**) at 1/500 dilution for 30 min at 22ºC. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (**ab91353**, 2µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in Ramos cells fixed with 4% paraformaldehyde (10 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.

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