abcam

Product datasheet

Anti-CD19 antibody [EPR5906] ab134114

重组　RabMAb

★★★★☆ **5 Abreviews**　**39 References**　　14 图像

概述

产品名称	Anti-CD19抗体[EPR5906]
描述	兔单克隆抗体[EPR5906] to CD19
宿主	Rabbit
经测试应用	**适用于:** Flow Cyt (Intra), WB, IHC-P, ICC/IF, IHC-Fr **不适用于:** IP
种属反应性	**与反应:** Human
免疫原	Recombinant fragment within Human CD19 aa 300 to the C-terminus. The exact sequence is proprietary. Database link: **P15391**
阳性对照	WB: Namalwa, Daudi and Ramos cell lysates; human tonsil tissue lysate. IHC-P: Human tonsil, diffuse large B-cell lymphoma, B-cell chronic lymphocytic leukaemia and spleen tissue. IHC (Frozen sections) - Human tonsil. ICC/IF: Raji cells. Flow Cyt (intra): Raji cells.
常规说明	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**.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C.
存储溶液	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, 0.05% BSA, 59% PBS
纯度	Protein A purified

克隆	单克隆
克隆编号	EPR5906
同种型	IgG

应用

The Abpromise guarantee　　**Abpromise™承诺保证使用ab134114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。

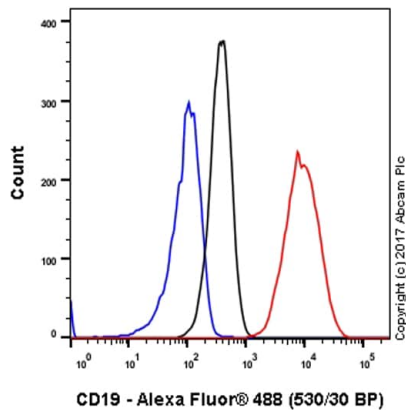| 应用	Ab评论	说明
Flow Cyt (Intra)		Use at an assay dependent concentration.
WB	★★★★★ (1)	1/1000 - 1/10000. Detects a band of approximately 95 kDa (predicted molecular weight: 61 kDa).
IHC-P	★★★★☆ (2)	1/250 - 1/500. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See **IHC antigen retrieval protocols**.
ICC/IF		1/500 - 1/1000.
IHC-Fr		Use a concentration of 1 µg/ml.

应用说明	Is unsuitable for IP.

靶标

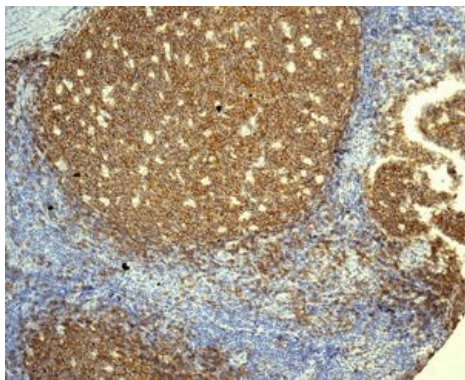| 功能	Assembles with the antigen receptor of B lymphocytes in order to decrease the threshold for antigen receptor-dependent stimulation.
疾病相关	Defects in CD19 are the cause of immunodeficiency common variable type 3 (CVID3) [MIM:613493]; also called antibody deficiency due to CD19 defect. CVID3 is a primary immunodeficiency characterized by antibody deficiency, hypogammaglobulinemia, recurrent bacterial infections and an inability to mount an antibody response to antigen. The defect results from a failure of B-cell differentiation and impaired secretion of immunoglobulins; the numbers of circulating B cells is usually in the normal range, but can be low.
序列相似性	Contains 2 Ig-like C2-type (immunoglobulin-like) domains.
翻译后修饰	Phosphorylated on serine and threonine upon DNA damage, probably by ATM or ATR. Phosphorylated on tyrosine following B-cell activation.
细胞定位	Membrane.

图片

Flow Cytometry (Intracellular) - Anti-CD19 antibody [EPR5906] (ab134114)

Intracellular Flow Cytometry analysis of Raji cells (Human Burkitt's lymphoma B lymphocyte)labelling CD19 with ab134114 at 1/1000 dilution, 1.186µg/ml (red). Cells were fixed with 4% paraformaldehyde, permeabilised with 90% methanol. Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1/2000.

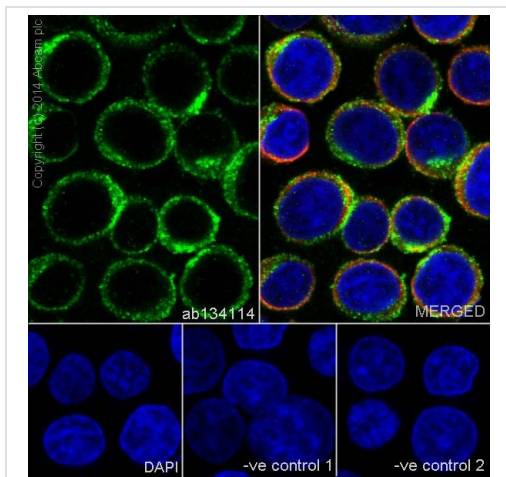Isotype control (black) - Rabbit monoclonal IgG (**ab172730**)
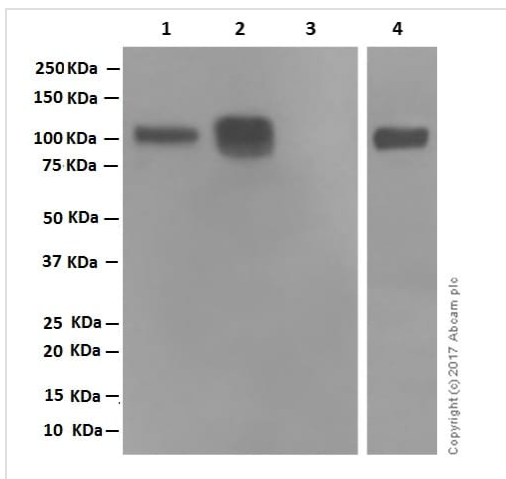
Unlabeled control (blue) - Unlabelled cells

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD19 antibody [EPR5906] (ab134114)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human tonsil tissue labelling CD19 with unpurified ab134114 at a dilution of 1/250.

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

Immunocytochemistry/ Immunofluorescence - Anti-CD19 antibody [EPR5906] (ab134114)

Immunocytochemistry/Immunofluorescence analysis of Raji cells labelling CD19 with purified ab134114 at a dilution of 1/500. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. **ab150077**, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain. **ab7291**, a mouse anti-tubulin (1/1000) and **ab150120**, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/1000) were also used.

Control 1: primary antibody (1/500) and secondary antibody, **ab150120**, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/1000).

Control 2: **ab7291** (1/1000) and secondary antibody, **ab150077**, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000).

Western blot - Anti-CD19 antibody [EPR5906] (ab134114)

Lanes 1-3 : Anti-CD19 antibody [EPR5906] (ab134114) at 1/10000 dilution
Lane 4 : Anti-CD19 antibody [EPR5906] (ab134114) at 1/2000 dilution

Lane 1 : NAMALWA (Human Burkitt's lymphoma) whole cell lysate)
Lane 2 : Human tonsil tissue lysate
Lane 3 : Jurkat (Human acute T cell leukemia)whole cell lysate
Lane 4 : RAMOS (Human Burkitt's lymphoma) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution
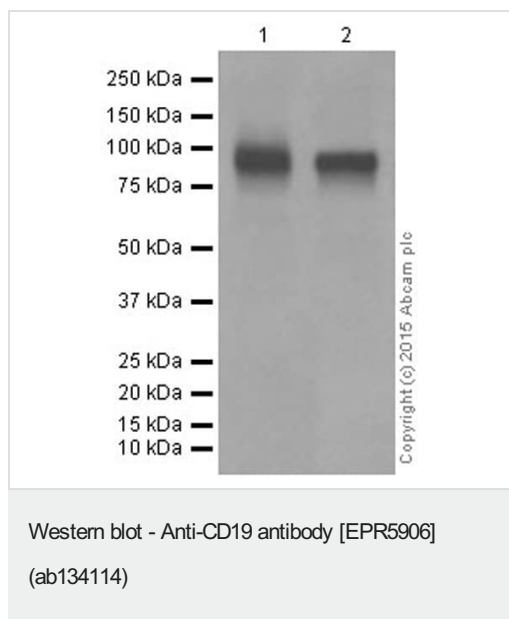
Predicted band size: 61 kDa
Observed band size: 95 kDa

Exposure time:

Lane 1-3: 3 minutes
Lane 4: 30 seconds

Jurkat is a CD19 null cell line according to the paper (PMID: 19147785).

Western blot - Anti-CD19 antibody [EPR5906]
(ab134114)

All lanes : Anti-CD19 antibody [EPR5906] (ab134114) at 1/5000
dilution (purified)

Lane 1 : Namalwa whole cell lysate
Lane 2 : Daudi whole cell lysate
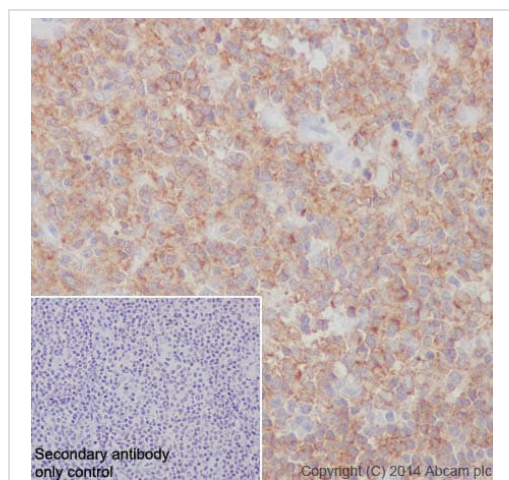
Lysates/proteins at 20 µg per lane.

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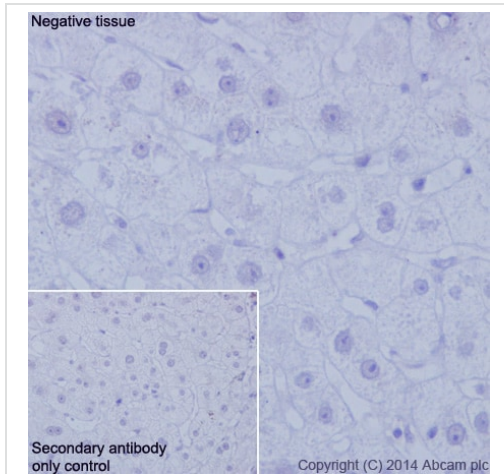1/1000 dilution

Predicted band size: 61 kDa
Observed band size: 95 kDa

Blocking and dilution buffer: 5% NFDM/TBST

Immunohistochemistry (Formalin/PFA-fixed paraffin-
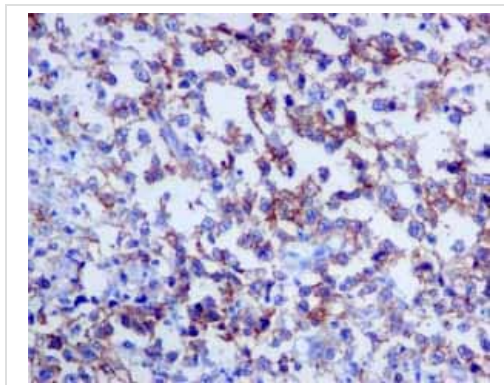embedded sections) - Anti-CD19 antibody
[EPR5906] (ab134114)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded
sections) analysis of human tonsil tissue labelling CD19 with
purified ab134114 at a dilution of 1/500. Heat mediated antigen
retrieval was performed using EDTA buffer pH 9. **ab97051**, a HRP-
conjugated goat anti-rabbit IgG (H+L) was used as the secondary
antibody (1/500). Negative control using PBS instead of primary
antibody. Counterstained with hematoxylin.

Immunohistochemistry (Formalin/PFA-fixed paraffin-
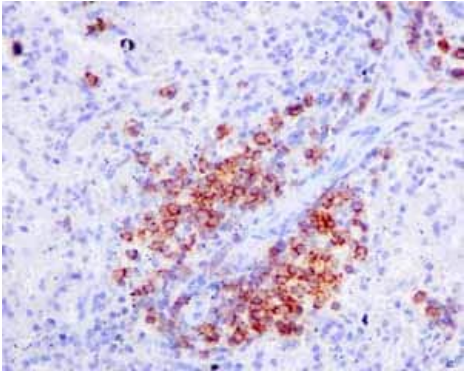embedded sections) - Anti-CD19 antibody
[EPR5906] (ab134114)

Negative tissue: Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human liver tissue labelling CD19 with purified ab134114 at a dilution of 1/500. Heat mediated antigen retrieval was performed using EDTA buffer pH 9. **ab97051**, a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.

Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-CD19 antibody
[EPR5906] (ab134114)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human diffuse large B-cell lymphoma tissue labelling CD19 with unpurified ab134114.
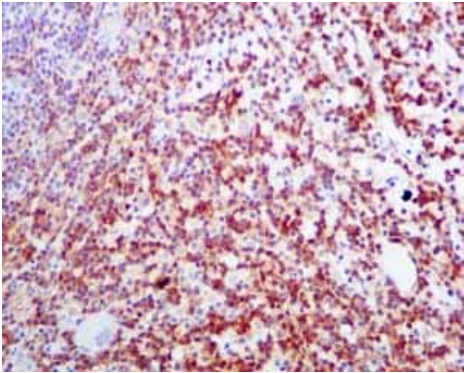
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD19 antibody [EPR5906] (ab134114)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human spleen tissue labelling CD19 with unpurified ab134114.
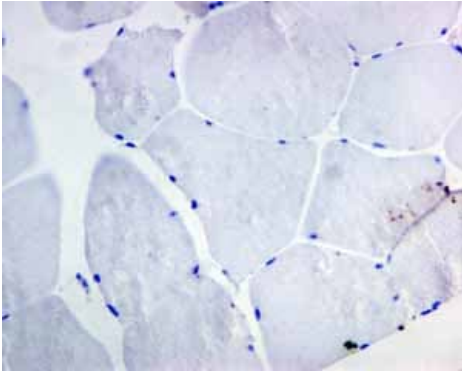
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD19 antibody [EPR5906] (ab134114)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human B-cell chronic lymphocytic leukaemia tissue labelling CD19 with unpurified ab134114.
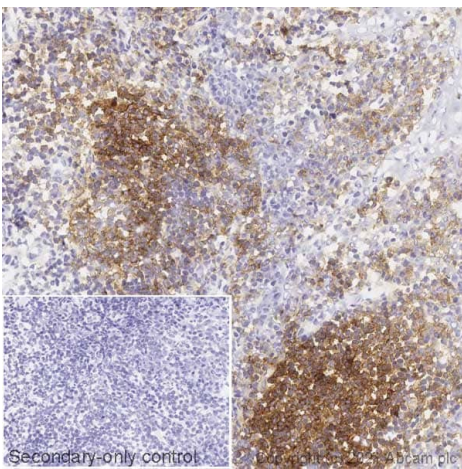
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD19 antibody [EPR5906] (ab134114)

Immunohistochemical analysis of paraffin embedded human skeletal muscle tissue using unpurified ab134114 showing negative staining.
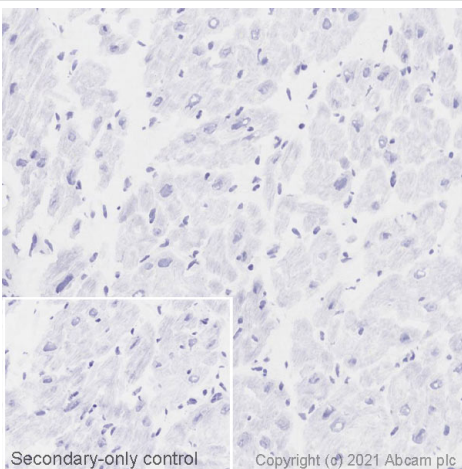
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Immunohistochemistry (Frozen sections) - Anti-CD19 antibody [EPR5906] (ab134114)

IHC image of ab134114 staining CD19 in human tonsil frozen tissue sections, performed on a Leica Biosystems BOND® RX instrument. The section was incubated with ab134114 at 1µg/ml for 30 mins at room temperature and detected using an HRP conjugated compact polymer system (Bond™ Polymer Refine Detection). DAB was used as the chromogen. Positive membrane staining was seen in human tonsil. The section was then counterstained with haematoxylin and mounted with DPX. No primary antibody was used in the secondary only control (shown on the inset).

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 (Frozen sections) - Anti-CD19 antibody [EPR5906] (ab134114)

IHC image of ab134114 staining CD19 in human heart frozen tissue sections, performed on a Leica Biosystems BOND® RX instrument. The section was incubated with ab134114 at 1µg/ml for 30 mins at room temperature and detected using an HRP conjugated compact polymer system (Bond™ Polymer Refine Detection). DAB was used as the chromogen. No staining in human heart (negative tissue) was observed. The section was then counterstained with haematoxylin and mounted with DPX. No primary antibody was used in the secondary only control (shown on the inset).

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.

Why choose a
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Confirmed specificity

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Anti-CD19 antibody [EPR5906] (ab134114)

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