

Anti-CD19 antibody [EPR23174-145] ab245235

重组 RabMAb

★★★★★ **5 Abreviews** **11 References** **9 图像**

概述

产品名称	Anti-CD19抗体[EPR23174-145]
描述	兔单克隆抗体[EPR23174-145] to CD19
宿主	Rabbit
经测试应用	适用于: WB, Flow Cyt, IP, IHC-Fr, IHC-P, ICC/IF, mIHC
种属反应性	与反应: Mouse
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: Mouse spleen tissue lysate. WEHI-231 and A20 whole cell lysate. IHC-P: Mouse spleen tissue. ICC/IF: Mouse peripheral blood mononuclear cells. Flow Cyt: Mouse peripheral blood mononuclear cells. IP: Mouse spleen lysate. IHC-Fr: Mouse spleen tissue. mIHC: Mouse spleen tissue.
常规说明	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

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 long term. Avoid freeze / thaw cycle.
存储溶液	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: PBS, 40% Glycerol, 0.05% BSA</p>
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR23174-145

同种型

IgG

应用

The Abpromise guarantee

Abpromise™ 承诺保证使用 ab245235 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
WB		1/1000. Detects a band of approximately 60-120 kDa (predicted molecular weight: 60 kDa).
Flow Cyt		1/500.
IP		1/30.
IHC-Fr	★★★★★ (1)	1/250.
IHC-P	★★★★★ (4)	1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		1/50.
mIHC		Use at an assay dependent concentration.

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.

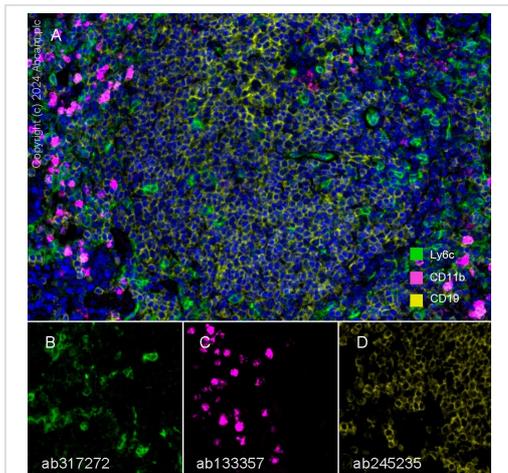
翻译后修饰

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



Multiplex immunohistochemistry - Anti-CD19 antibody [EPR23174-145] (ab245235)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse spleen labelling LY6C with **ab317272** at 1/100 (B), CD11b with **ab133357** at 1/20000 dilution (C) and CD19 with ab245235 at 1/1000 dilution (D). Opal Polymer HRP Ms + Rb was used as a secondary antibody, and DAPI was used for a nuclear counter stain. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

Panel A: merged staining of anti-LY6C (green; Opal™690), anti-CD11b (magenta; Opal™570) and anti-CD19 (yellow; Opal™520) on mouse spleen.

Panel B: anti-LY6C stained on monocytes/macrophages.

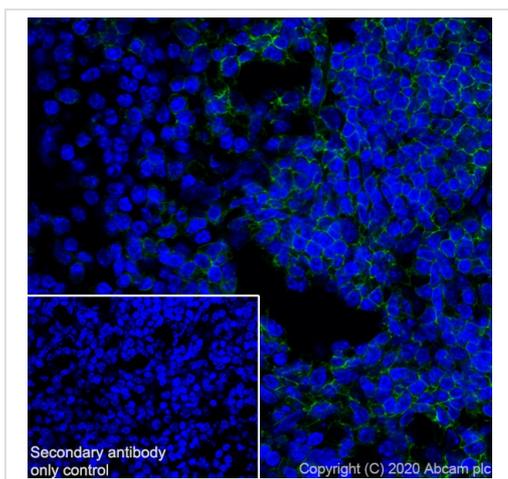
Panel C: anti-CD11b stained on monocytes/macrophages.

Panel D: anti-CD19 stained on B cells.

Co-staining of LY6C and CD11b can be observed.

The section was incubated in three rounds of staining: in the order of **ab317272**, **ab133357**, and ab245235 for 30 mins at room temperature. Each round was followed by a separate fluorescent tyramide signal amplification system.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument with an Opal™ 4-color kit. Image acquisition was performed with Leica SP8 confocal microscope.



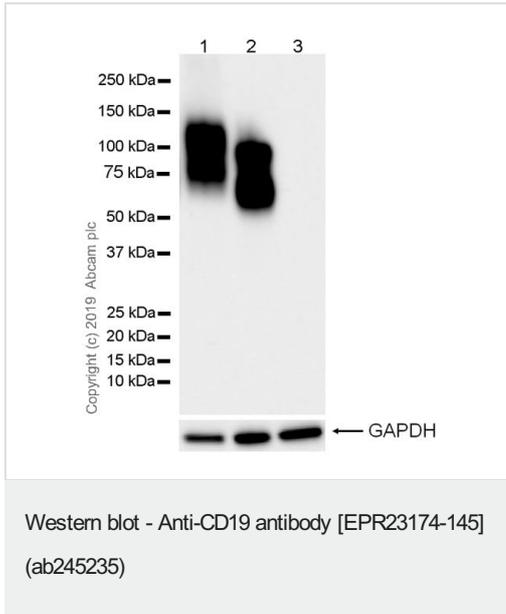
Immunohistochemistry (Frozen sections) - Anti-CD19 antibody [EPR23174-145] (ab245235)

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized perfusion fixed frozen Mouse spleen tissue labeling CD19 with ab245235 at 1/250 (1.82 ug/ml) dilution followed by **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution (Green). Positive staining on mouse spleen. is observed.

The nuclear counterstain was DAPI (Blue).

Secondary antibody control: Secondary antibody is **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1000 dilution.

Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).



All lanes : Anti-CD19 antibody [EPR23174-145] (ab245235) at 1/1000 dilution

Lane 1 : WEHI-231 (mouse B cell lymphoma B lymphocyte), whole cell lysate

Lane 2 : A20 (mouse reticulum sarcoma B lymphocyte), whole cell lysate

Lane 3 : CTLL-2 (mouse T lymphocyte), 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: 60 kDa

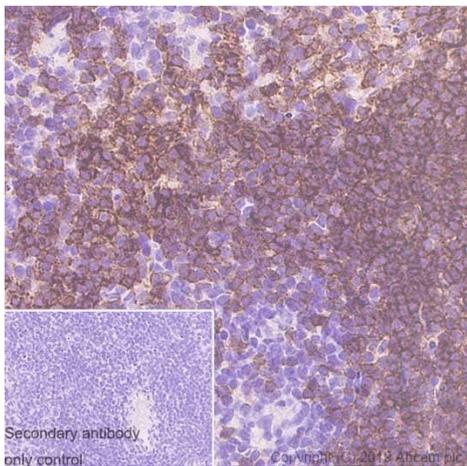
Observed band size: 60-120 kDa

Blocking and dilution buffer: 5% NFDN/TBS.

Exposure time: 48 seconds.

The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 26516065).

Negative control: CTLL-2 (PMID: 1370948) is treated as a negative cell line according to the literature, that CD19 is a B lymphocyte cell-surface marker that is expressed early during pre-B-cell differentiation, not in T cells.

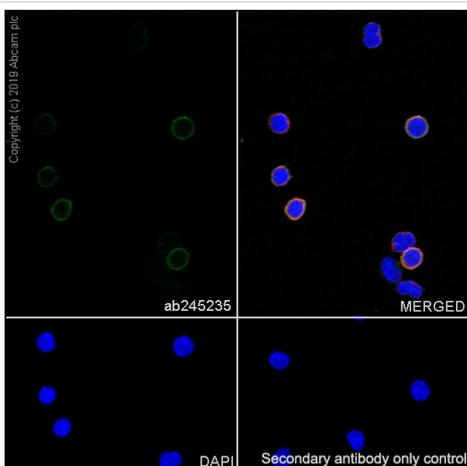


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD19 antibody [EPR23174-145] (ab245235)

Immunohistochemical analysis of paraffin-embedded mouse spleen tissue labeling CD19 with ab245235 at 1/1000 dilution (0.446 µg/ml) followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP Polymer). Positive staining on mouse spleen (PMID: 18648532). The section was incubated with ab245235 for 10 mins at room temperature. 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).

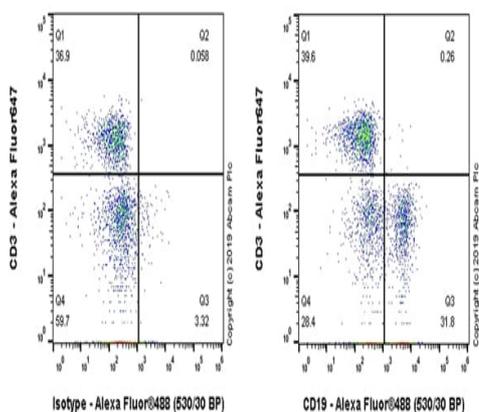
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.



Immunocytochemistry/ Immunofluorescence - Anti-CD19 antibody [EPR23174-145] (ab245235)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized mouse PBMC (mouse primary peripheral blood mononuclear cell) cells labeling CD19 with ab245235 at 1/50 dilution, followed by **ab150077** AlexaFluor[®]488 Goat anti-Rabbit secondary antibody at 1/1000 dilution (Green). Confocal image showing membranous staining in some subsets of mouse PBMCs. **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor[®] 594) was used to counterstain tubulin at 1/200 dilution (Red). The nuclear counterstain was DAPI (Blue).

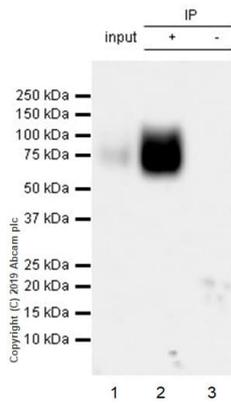
Secondary antibody only control: Secondary antibody is **ab150077** AlexaFluor[®]488 Goat anti-Rabbit secondary at 1/1000 dilution.



Flow Cytometry - Anti-CD19 antibody [EPR23174-145] (ab245235)

Flow cytometric analysis of mouse peripheral blood mononuclear cell (PBMC) cells labeling CD19 with ab245235 at 1/500 dilution (Right) compared with a Rabbit monoclonal IgG (**ab172730**) isotype control (Left). Goat anti rabbit IgG (Alexa Fluor[®] 488, **ab150077**) at 1/2000 dilution was used as the secondary antibody. Cells were stained with rabbit IgG (Left) or ab245235 (Right). Then stained with anti-CD3 conjugated to Alexa Fluor[®] 647. CD19 and CD3 are mutually exclusive expressed in mouse PBMC.

Gated on viable cells.



Immunoprecipitation - Anti-CD19 antibody
[EPR23174-145] (ab245235)

CD19 was immunoprecipitated from 0.35 mg mouse spleen lysate with ab245235 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab245235 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) was used at 1/5000 dilution.

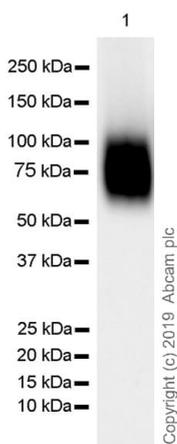
Lane 1: Mouse spleen lysate 10µg

Lane 2: ab245235 IP in mouse spleen lysate

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab245235 in mouse spleen lysate

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

Exposure time: 30 seconds.



Western blot - Anti-CD19 antibody [EPR23174-145]
(ab245235)

Anti-CD19 antibody [EPR23174-145] (ab245235) at 1/1000 dilution + Mouse spleen tissue lysate at 20 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Predicted band size: 60 kDa

Observed band size: 60-120 kDa

Blocking and dilution buffer: 5% NFDm/TBST.

Exposure time: 48 seconds.

The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 26516065).

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-CD19 antibody [EPR23174-145] (ab245235)

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