abcam

Product datasheet

Anti-CD79a antibody [EPR26537-114] ab300150

重组 RabMAb

15 图像

概述

产品名称	Anti-CD79a抗体[EPR26537-114]
描述	兔单克隆抗体[EPR26537-114] to CD79a
宿主	Rabbit
经测试应用	**适用于:** ICC/IF, IP, IHC-P, WB, IHC-Fr **不适用于:** Flow Cyt
种属反应性	**与反应:** Mouse, Rat **不与反应:** Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: Rat lymph node, Rat spleen, Mouse lymph node, A20, Untreated Rat lymph node and Rat lymph node treated with Protein Deglycosylation MIX II lysates. IHC-P: Mouse spleen, Mouse large B-cell lymphoma, Rat spleen. IHC-Fr: Mouse spleen and Rat spleen tissues. ICC/IF: Mouse splenocytes cells. IP: Mouse lymph node and Rat spleen 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 long term. Avoid freeze / thaw cycle.
存储溶液	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
纯度	Protein A purified

克隆	单克隆
克隆编号	EPR26537-114
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用**ab300150**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
ICC/IF		1/100.
IP		1/30.
IHC-P		1/5000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		1/1000. Predicted molecular weight: 25 kDa.
IHC-Fr		1/500.

应用说明 Is unsuitable for Flow Cyt.

靶标

功能 Required in cooperation with CD79B for initiation of the signal transduction cascade activated by binding of antigen to the B-cell antigen receptor complex (BCR) which leads to internalization of the complex, trafficking to late endosomes and antigen presentation. Also required for BCR surface expression and for efficient differentiation of pro- and pre-B-cells. Stimulates SYK autophosphorylation and activation. Binds to BLNK, bringing BLNK into proximity with SYK and allowing SYK to phosphorylate BLNK. Also interacts with and increases activity of some Src-family tyrosine kinases. Represses BCR signaling during development of immature B cells.

组织特异性 B-cells.

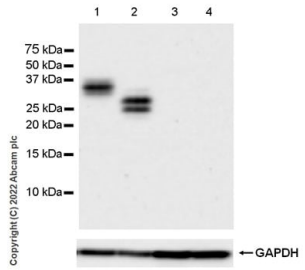
疾病相关 Defects in CD79A are the cause of agammaglobulinemia type 3 (AGM3) [MIM:613501]. It is a primary immunodeficiency characterized by profoundly low or absent serum antibodies and low or absent circulating B cells due to an early block of B-cell development. Affected individuals develop severe infections in the first years of life. Note=Two different mutations, one at the splice donor site of intron 2 and the other at the splice acceptor site for exon 3, have been identified. Both mutations give rise to a truncated protein.

序列相似性 Contains 1 Ig-like C2-type (immunoglobulin-like) domain.
Contains 1 ITAM domain.

翻译后修饰 Phosphorylated on tyrosine, serine and threonine residues upon B-cell activation. Phosphorylation of tyrosine residues by Src-family kinases is an early and essential feature of the BCR signaling cascade. The phosphorylated tyrosines serve as docking sites for SH2-domain containing kinases, leading to their activation which in turn leads to phosphorylation of downstream targets. Phosphorylation of serine and threonine residues may prevent subsequent tyrosine phosphorylation.

细胞定位	Cell membrane. Following antigen binding, the BCR has been shown to translocate from detergent-soluble regions of the cell membrane to lipid rafts although signal transduction through the complex can also occur outside lipid rafts.

图片



Western blot - Anti-CD79a antibody [EPR26537-114] (AB300150)

All lanes : Anti-CD79a antibody [EPR26537-114] (ab300150) at 1/1000 dilution

Lane 1 : Rat lymph node tissue lysate
Lane 2 : Rat spleen tissue lysate
Lane 3 : Rat brain tissue lysate
Lane 4 : Rat skin tissue lysate

Lysates/proteins at 20 µg per lane.

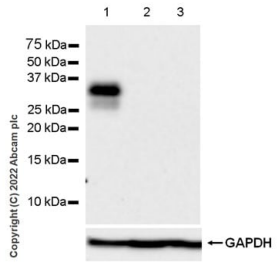
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 25 kDa
Observed band size: 25, 30-50 kDa

Exposure time: 81 seconds

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

Low expression: brain, skin(Human Protein Atlas).
The molecular weight observed is consistent with what has been described in the literature (PMID:15591116).



Western blot - Anti-CD79a antibody [EPR26537-114] (AB300150)

All lanes : Anti-CD79a antibody [EPR26537-114] (ab300150) at 1/1000 dilution

Lane 1 : Mouse lymph node tissue lysate
Lane 2 : Mouse brain tissue lysate
Lane 3 : Mouse skin tissue lysate

Lysates/proteins at 20 µg per lane.

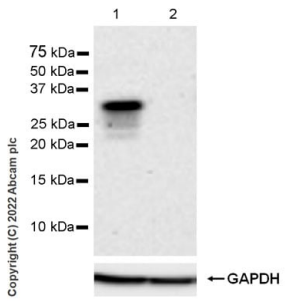
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 25 kDa
Observed band size: 25, 30-50 kDa

Exposure time: 81 seconds

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

Low expression: brain, skin(Human Protein Atlas).
The molecular weight observed is consistent with what has been described in the literature (PMID:15591116).



Western blot - Anti-CD79a antibody [EPR26537-114] (AB300150)

All lanes : Anti-CD79a antibody [EPR26537-114] (ab300150) at 1/1000 dilution

Lane 1 : A20 (Mouse reticulum sarcoma B lymphocyte) whole cell lysate
Lane 2 : C2C12 (Mouse myoblasts myoblast) whole cell lysate

Lysates/proteins at 20 µg per lane.

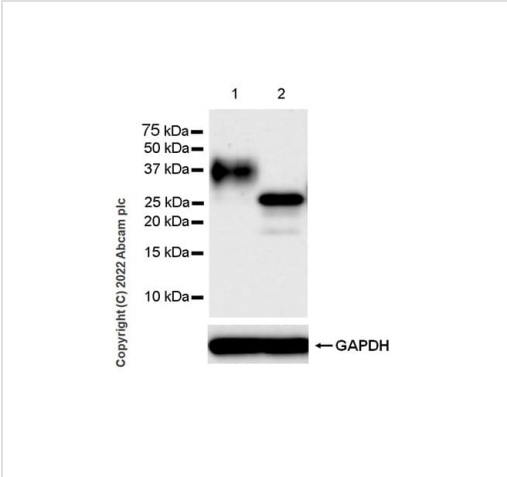
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 25 kDa
Observed band size: 25, 30-50 kDa

Exposure time: 180 seconds

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

Low expression: C2C12(database:Harmonizome).
The molecular weight observed is consistent with what has been described in the literature (PMID: 15591116).
This blot was developed using a high sensitivity ECL substrate.



Western blot - Anti-CD79a antibody [EPR26537-114] (AB300150)

All lanes : Anti-CD79a antibody [EPR26537-114] (ab300150) at 1/1000 dilution

Lane 1 : Untreated Rat lymph node tissue lysate
Lane 2 : Rat lymph node tissue lysate treated with Protein Deglycosylation MIX II

Lysates/proteins at 15 µg per lane.

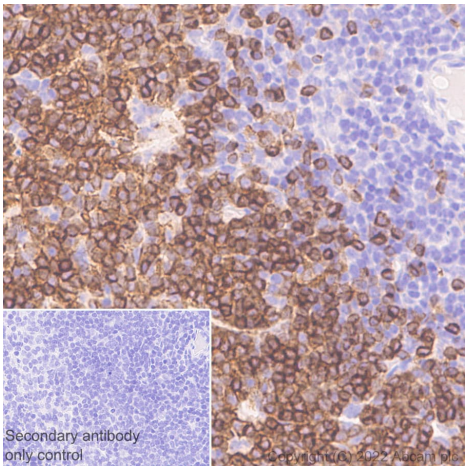
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/50000 dilution

Predicted band size: 25 kDa
Observed band size: 25, 30-50 kDa

Exposure time: 92 seconds

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

CD79a is a glycosylated protein and can be deglycosylated by Protein Deglycosylation MIX II.
The molecular weight observed is consistent with what has been described in the literature (PMID:15591116).

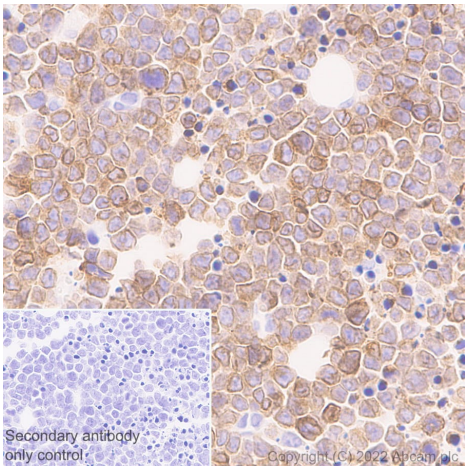


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD79a antibody [EPR26537-114] (AB300150)

Immunohistochemical analysis of paraffin-embedded Mouse spleen tissue labelling CD79a with ab300150 at 1/5000 (0.123 µg/ml) followed by a ready to use LeicaDS9800 (BOND™ Polymer Refine Detection). Membraneous staining on mouse spleen.The section was incubated with ab300150 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: PBS was used instead of ab300150 followed by ready to use secondary antibody LeicaDS9800 (BOND™ Polymer Refine Detection).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

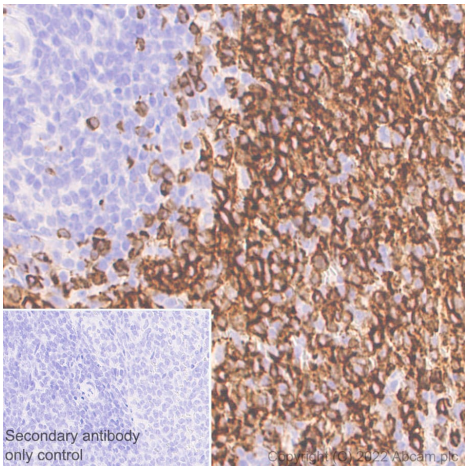


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD79a antibody [EPR26537-114] (AB300150)

Immunohistochemical analysis of paraffin-embedded Mouse large B-cell lymphoma tissue labelling CD79a with ab300150 at 1/5000 (0.123 µg/ml) followed by a ready to use LeicaDS9800 (BOND™ Polymer Refine Detection). Membraneous staining on mouse large B-cell lymphoma. The section was incubated with ab300150 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: PBS was used instead of ab300150 followed by ready to use secondary antibody LeicaDS9800 (BOND™ Polymer Refine Detection) was used.

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

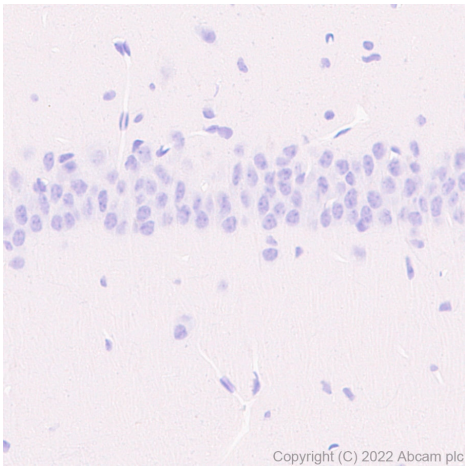


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD79a antibody [EPR26537-114] (AB300150)

Immunohistochemical analysis of paraffin-embedded Rat spleen tissue labelling CD79a with ab300150 at 1/5000 (0.123 µg/ml) followed by a ready to use LeicaDS9800 (BOND™ Polymer Refine Detection) was used. Membraneous staining on rat spleen.The section was incubated with ab300150 for 30 mins at room temperature.The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: PBS was used instead of primary antibody (ab300150) followed by ready to use secondary antibody LeicaDS9800 (BOND™ Polymer Refine Detection).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

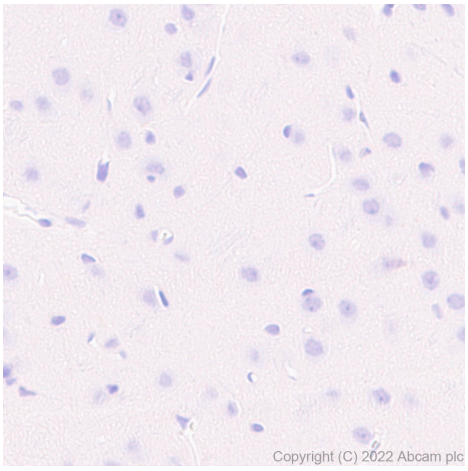


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD79a antibody [EPR26537-114] (AB300150)

Immunohistochemical analysis of paraffin-embedded Mouse cerebrum tissue labelling CD79a with ab300150 at 1/5000 (0.123 µg/ml) followed by a ready to use LeicaDS9800 (BOND™ Polymer Refine Detection) was used. Negative control: no staining on mouse cerebrum. The section was incubated with ab300150 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: PBS was used instead of primary antibody (ab300150) followed by ready to use secondary antibody LeicaDS9800 (BOND™ Polymer Refine Detection).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

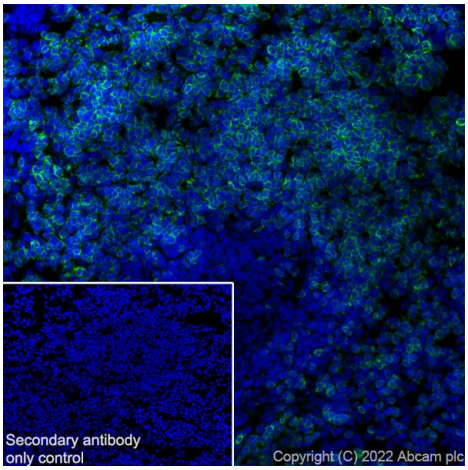


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD79a antibody [EPR26537-114] (AB300150)

Immunohistochemical analysis of paraffin-embedded Rat cerebrum tissue labelling CD79a with ab300150 at 1/5000 (0.123 µg/ml) followed by a ready to use LeicaDS9800 (BOND™ Polymer Refine Detection) was used. Negative control: no staining on rat cerebrum.The section was incubated with ab300150 for 30 mins at room temperature.The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: PBS was used instead of primary antibody (ab300150) followed by ready to use secondary antibody LeicaDS9800 (BOND™ Polymer Refine Detection).

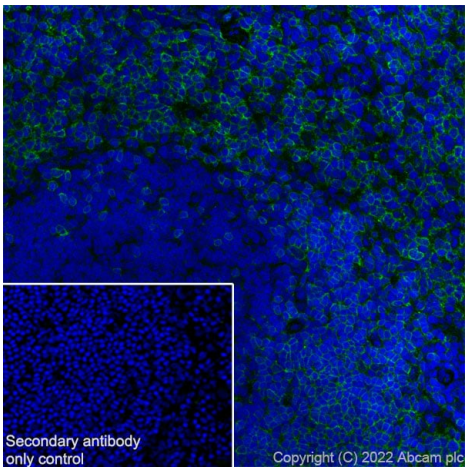
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins



Immunohistochemistry (Frozen sections) - Anti-CD79a antibody [EPR26537-114] (AB300150)

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen Mouse spleen (fresh) tissue labeling CD79a with ab300150 at 1/500 (1.232 µg/ml) dilution followed by **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 (2 µg/mL) dilution (Green). Positive staining on mouse spleen is observed. The nuclear counterstain was DAPI (Blue).

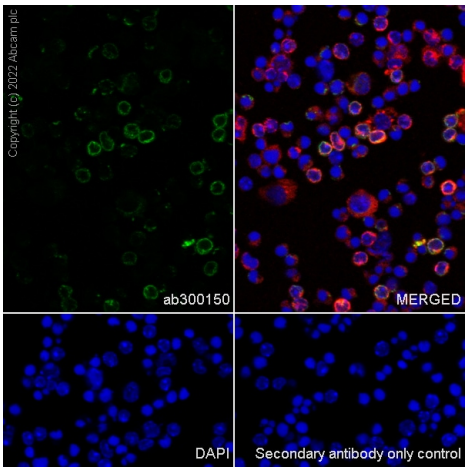
Secondary antibody control: Secondary antibody is **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbedat 1/1000 (2 µg/mL) dilution.



Immunohistochemistry (Frozen sections) - Anti-CD79a antibody [EPR26537-114] (AB300150)

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen Rat spleen (fresh) tissue labeling CD79a with ab300150 at 1/500 (1.232 µg/ml) dilution followed by **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 (2 µg/mL) dilution (Green). Positive staining on rat spleen is observed. The nuclear counterstain was DAPI (Blue).

Secondary antibody control: Secondary antibody is **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbedat 1/1000 (2 µg/mL) dilution.

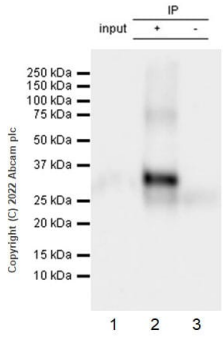


Immunocytochemistry/ Immunofluorescence - Anti-CD79a antibody [EPR26537-114] (ab300150)

This data was developed using ab300150, the same antibody clone in a different buffer formulation.

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeilized Mouse splenocytes cells lebelling CD79a with ab300150 at 1/100 (6.16 µg/ml) dilution, followed by **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 (2 µg/ml) dilution (Green). Confocal image showing membranous and cytoplasmic staining in subsets of mouse splenocytes. **ab195889** Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 (2.5 µg/ml) dilution (Red). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 (2 µg/ml) dilution.



Immunoprecipitation - Anti-CD79a antibody [EPR26537-114] (AB300150)

CD79a was immunoprecipitated from 0.35 mg Mouse lymph node tissue lysate 10 µg with ab300150 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab300150 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP)(**ab131366**) was used at 1/5000 dilution.

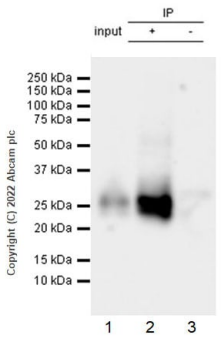
Lane 1: Mouse lymph node tissue lysate 10 µg

Lane 2: ab300150 IP in Mouse lymph node tissue lysate

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab300150 in Mouse lymph node tissue lysate

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

Exposure time: 15 seconds



Immunoprecipitation - Anti-CD79a antibody [EPR26537-114] (AB300150)

CD79a was immunoprecipitated from 0.35 mg rat spleen tissue lysate 10 µg with ab300150 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab300150 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP)(**ab131366**) was used at 1/5000 dilution.

Lane 1: Rat spleen tissue lysate 10 µg

Lane 2: ab300150 IP in rat spleen tissue lysate

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab300150 in Rat spleen tissue lysate

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

Exposure time: 15 seconds

Anti-CD79a antibody [EPR26537-114] (AB300150)

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