

Anti-CD79a antibody [EP3618] ab79414

KO 評価済 リコンビナント RabMAb[®]

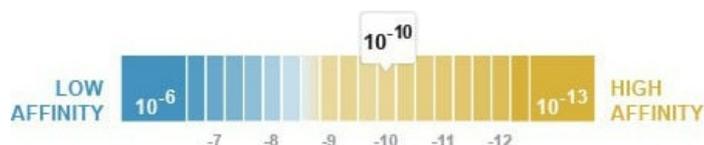
5 References [画像数 16](#)

製品の概要

製品名	Anti-CD79a antibody [EP3618]
製品の詳細	Rabbit monoclonal [EP3618] to CD79a
由来種	Rabbit
アプリケーション	適用あり: ICC/IF, WB, IHC-P 適用なし: IP
種交差性	交差種: Human
免疫原	Synthetic peptide within Human CD79a aa 50-150 (extracellular). The exact sequence is proprietary.
ポジティブ・コントロール	Raji cell, Daudi cell, human tonsil tissue and human spleen tissue lysates. Raji cells. Human tonsil tissue. WB: Wild-type Raji cell lysate and Daudi cell lysate
特記事項	<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> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
解離定数 (K_D 値)	K _D = 1.16 x 10 ⁻¹⁰ M



[Learn more about K_D](#)

バッファー	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
精製度	Tissue culture supernatant
ポリ/モノ	モノクローナル
クローン名	EP3618
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab79414の使用に適用されます**
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
ICC/IF		1/500.
WB		1/5000 - 1/20000. Detects a band of approximately 44-48 kDa (predicted molecular weight: 25 kDa).
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

追加情報 Is unsuitable for IP.

ターゲット情報

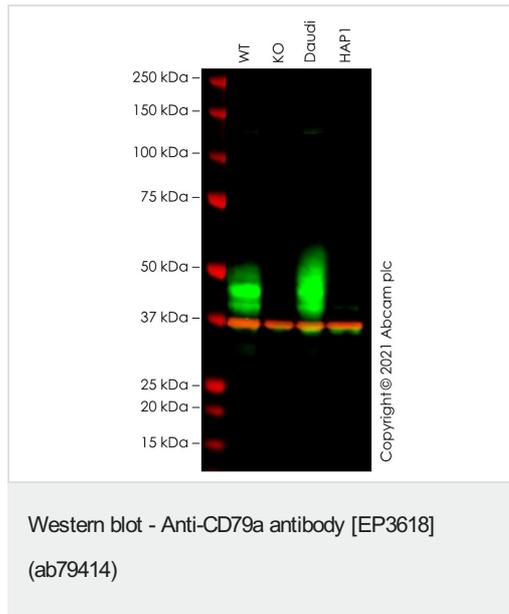
機能	Required in cooperation with CD79B for initiation of the signal transduction cascade activated by binding of antigen to the B-cell antigen receptor complex (BCR) which leads to internalization of the complex, trafficking to late endosomes and antigen presentation. Also required for BCR surface expression 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.
組織特異性	B-cells.
関連疾患	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.
配列類似性	Contains 1 Ig-like C2-type (immunoglobulin-like) domain. Contains 1 ITAM domain.
翻訳後修飾	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.

細胞内局在

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.

画像



All lanes : Anti-CD79a antibody [EP3618] (ab79414) at 1/5000 dilution

Lane 1 : Wild-type Raji cell lysate

Lane 2 : CD79A knockout Raji cell lysate

Lane 3 : Daudi cell lysate

Lane 4 : HAP1 cell lysate

Lysates/proteins at 20 µg per lane.

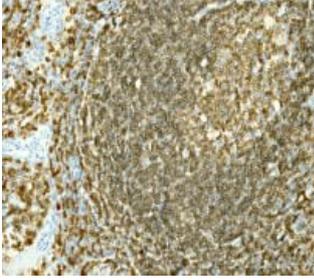
Performed under reducing conditions.

Predicted band size: 25 kDa

Observed band size: 40-50 kDa

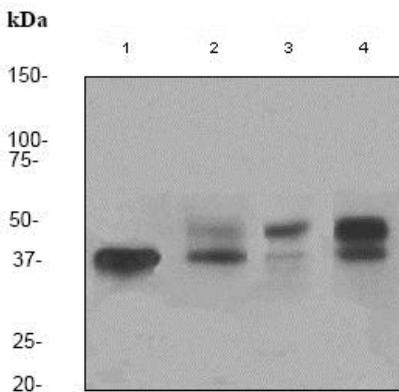
False colour image of Western blot: Anti-CD79a antibody [EP3618] staining at 1/5000 dilution, shown in green; Mouse anti-GAPDH antibody [6C5] ([ab8245](#)) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab79414 was shown to bind specifically to CD79a. A band was observed at 40-50 kDa in wild-type Raji cell lysates with no signal observed at this size in CD79A knockout cell line [ab274911](#) (knockout cell lysate [ab281361](#)). To generate this image, wild-type and CD79A knockout Raji cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween[®] 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L (IRDye[®] 800CW) preabsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye[®] 680RD) preabsorbed ([ab216776](#)) at 1/20000

dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD79a antibody [EP3618] (ab79414)

ab79414 at 1/100 dilution staining CD79a in paraffin-embedded human tonsil tissue by Immunohistochemistry. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Western blot - Anti-CD79a antibody [EP3618] (ab79414)

All lanes : Anti-CD79a antibody [EP3618] (ab79414) at 1/10000 dilution

Lane 1 : Raji cell lysate

Lane 2 : Daudi cell lysate

Lane 3 : Human tonsil tissue lysate

Lane 4 : Human spleen tissue lysate

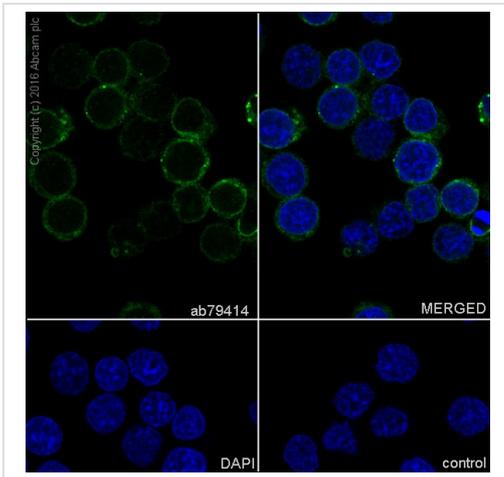
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 25 kDa

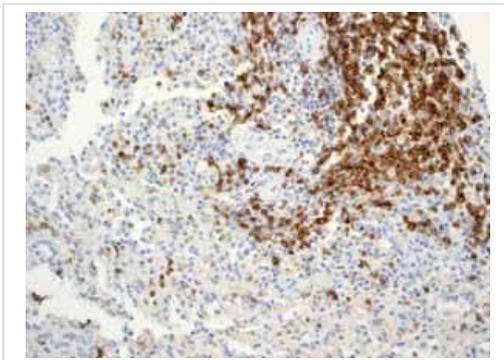
Observed band size: 44-48 kDa



Immunocytochemistry/ Immunofluorescence - Anti-CD79a antibody [EP3618] (ab79414)

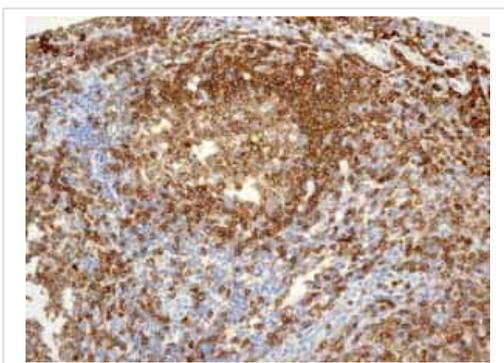
Immunocytochemistry/Immunofluorescence analysis of RAMOS (human Burkitt's lymphoma) cells labelling CD79a with purified ab79414 at 1/500. Cells were fixed with 4% Paraformaldehyde and permeabilized with 0.1% Triton X-100. [ab150077](#), Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody. Nuclei were counterstained with DAPI (blue).

Secondary Only Control: PBS was used instead of the primary antibody as the negative control.



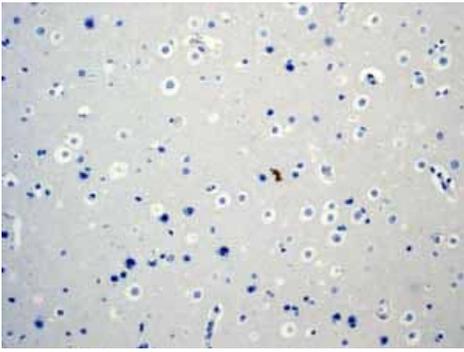
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD79a antibody [EP3618] (ab79414)

ab79414 showing positive staining in Normal spleen tissue. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



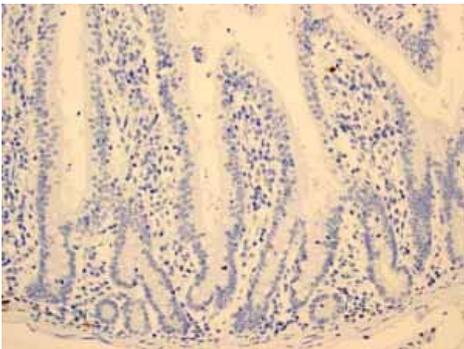
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD79a antibody [EP3618] (ab79414)

ab79414 showing positive staining in Normal tonsil tissue. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



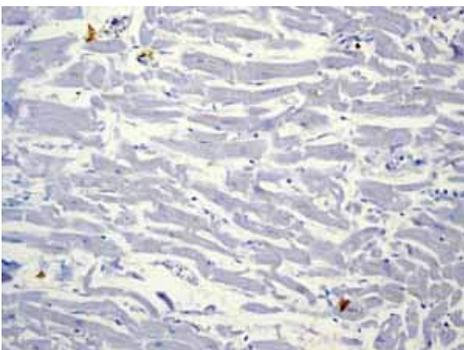
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD79a antibody [EP3618] (ab79414)

ab79414 showing negative staining in Normal brain tissue. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



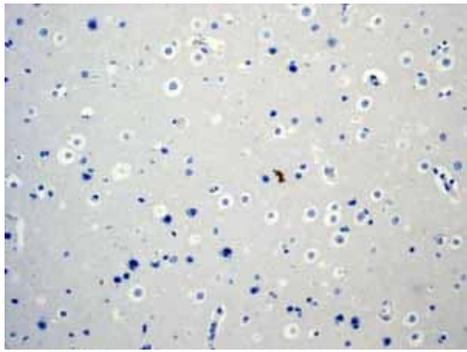
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD79a antibody [EP3618] (ab79414)

ab79414 showing negative staining in Normal colon tissue. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



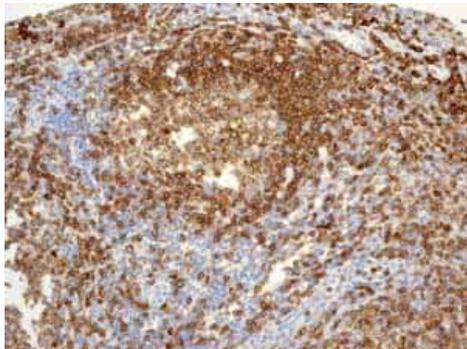
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD79a antibody [EP3618] (ab79414)

ab79414 showing negative staining in Normal heart tissue. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



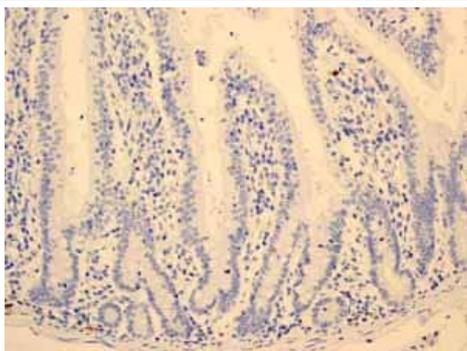
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD79a antibody [EP3618] (ab79414)

ab79414 showing negative staining in Normal brain tissue. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD79a antibody [EP3618] (ab79414)

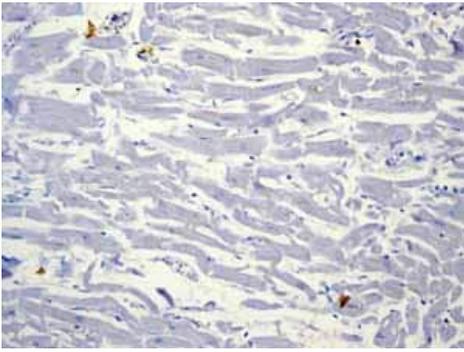
ab79414 showing positive staining in Normal tonsil tissue. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD79a antibody [EP3618] (ab79414)

ab79414 showing negative staining in Normal colon tissue.

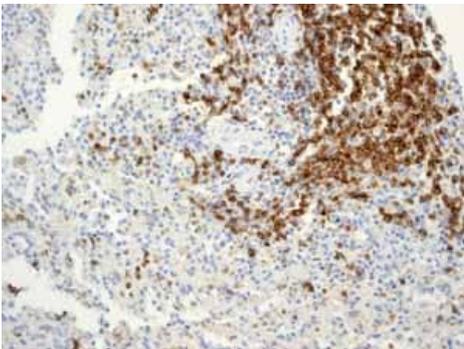
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD79a antibody [EP3618] (ab79414)

ab79414 showing negative staining in Normal heart tissue.

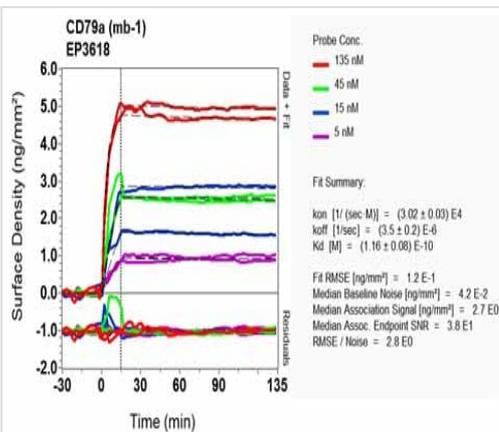
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD79a antibody [EP3618] (ab79414)

ab79414 showing positive staining in Normal spleen tissue.

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



OI-RD Scanning - Anti-CD79a antibody [EP3618] (ab79414)

Equilibrium disassociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)

Why choose a recombinant antibody?



Research with confidence
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Recombinant technology



Success from the first experiment
Confirmed specificity



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Animal-free production

Anti-CD79a antibody [EP3618] (ab79414)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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