

Anti-CD22 antibody [EPR20061] ab207727

リコンビナント **RabMAb**

★★★★☆ **2 Abreviews** 画像数 10

製品の概要

製品名	Anti-CD22 antibody [EPR20061]
製品の詳細	Rabbit monoclonal [EPR20061] to CD22
由来種	Rabbit
アプリケーション	適用あり: WB, IHC-P, ICC/IF, IP
種交差性	交差種: Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: Ramos, Daudi and Raji whole cell lysates; Human tonsil and fetal spleen lysates. IHC-P: Human spleen and tonsil tissues. ICC/IF: Daudi and Raji cells. IP: Human tonsil lysate; Raji whole 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>

製品の特性

製品の状態	Liquid
保存方法	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.
バッファー	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR20061

アプリケーション

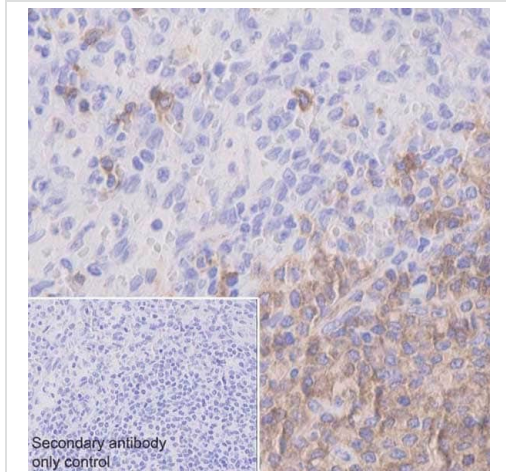
The Abpromise guarantee Abpromise保証は、 次のテスト済みアプリケーションにおけるab207727の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		1/1000. Detects a band of approximately 130 kDa (predicted molecular weight: 95 kDa).
IHC-P	★★★★★ (2)	1/2000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		1/100.
IP		1/30.

ターゲット情報

機能	Mediates B-cell B-cell interactions. May be involved in the localization of B-cells in lymphoid tissues. Binds sialylated glycoproteins; one of which is CD45. Preferentially binds to alpha-2,6-linked sialic acid. The sialic acid recognition site can be masked by cis interactions with sialic acids on the same cell surface. Upon ligand induced tyrosine phosphorylation in the immune response seems to be involved in regulation of B-cell antigen receptor signaling. Plays a role in positive regulation through interaction with Src family tyrosine kinases and may also act as an inhibitory receptor by recruiting cytoplasmic phosphatases via their SH2 domains that block signal transduction through dephosphorylation of signaling molecules.
組織特異性	B-lymphocytes.
配列類似性	Belongs to the immunoglobulin superfamily. SIGLEC (sialic acid binding Ig-like lectin) family. Contains 6 Ig-like C2-type (immunoglobulin-like) domains. Contains 1 Ig-like V-type (immunoglobulin-like) domain.
ドメイン	Contains 4 copies of a cytoplasmic motif that is referred to as the immunoreceptor tyrosine-based inhibitor motif (ITIM). This motif is involved in modulation of cellular responses. The phosphorylated ITIM motif can bind the SH2 domain of several SH2-containing phosphatases.
翻訳後修飾	Phosphorylation of Tyr-762, Tyr-807 and Tyr-822 are involved in binding to SYK, GRB2 and SYK, respectively. Phosphorylation of Tyr-842 is involved in binding to SYK, PLCG2 and PIK3R1/PIK3R2. Phosphorylated on tyrosine residues by LYN.
細胞内局在	Cell membrane.

画像

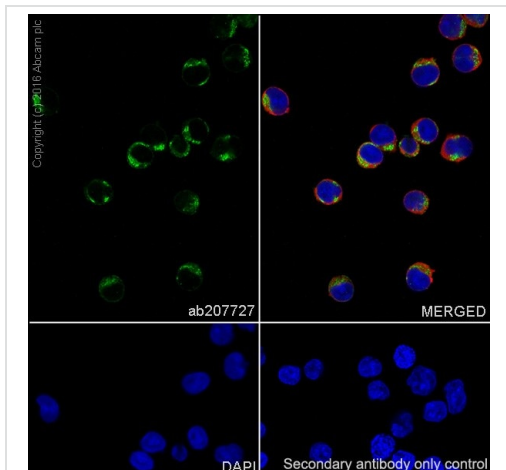


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD22 antibody [EPR20061] (ab207727)

Immunohistochemical analysis of paraffin-embedded human spleen tissue labeling CD22 with ab207727 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution. Membranous and cytoplasmic staining on B cells of human spleen [PMID: 11967115]. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



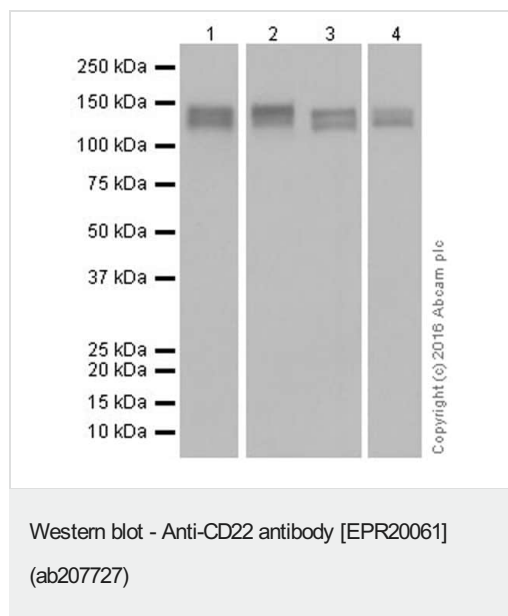
Immunocytochemistry/ Immunofluorescence - Anti-CD22 antibody [EPR20061] (ab207727)

Immunofluorescent analysis of 100% methanol-fixed Daudi (Human Burkitt's lymphoma cell line) cells labeling CD22 with ab207727 at 1/100 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/1000 dilution (green).

Confocal image showing cytoplasmic staining on Daudi cell line.

The nuclear counter stain is DAPI (blue). Tubulin is detected with [ab195889](#) (Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594)) at 1/200 dilution (red).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat anti-rabbit IgG (Alexa Fluor® 488) ([ab150077](#)) at 1/1000 dilution.



Lanes 1 & 4 : Anti-CD22 antibody [EPR20061] (ab207727) at 1/2000 dilution

Lanes 2-3 : Anti-CD22 antibody [EPR20061] (ab207727) at 1/10000 dilution

Lane 1 : Ramos (Human Burkitt's lymphoma cell line) whole cell lysate

Lane 2 : Daudi (Human Burkitt's lymphoma cell line) whole cell lysate

Lane 3 : Raji (Human Burkitt's lymphoma cell line) whole cell lysate

Lane 4 : Human tonsil lysate

Lysates/proteins at 20 µg per lane.

Secondary

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

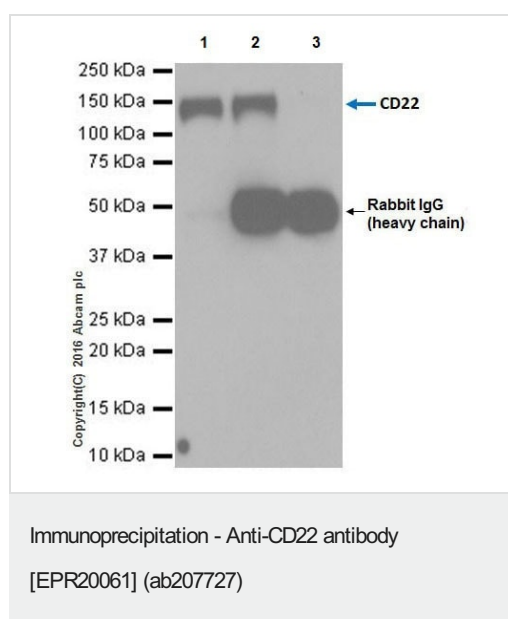
Predicted band size: 95 kDa

Observed band size: 130 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.

Exposure times: Lane 1: 3 seconds; Lane 2/3: 1 second; Lane 4: 8 seconds.

The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 24264377 & 21178016).



CD22 was immunoprecipitated from 0.35 mg of Human tonsil lysate with ab207727 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab207727 at 1/500 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/1000 dilution.

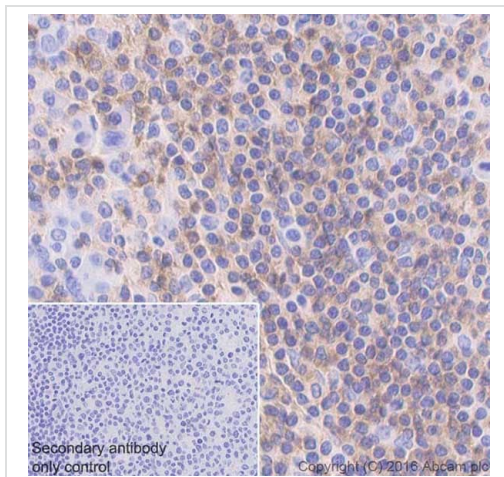
Lane 1: Human tonsil lysate, 10 µg (Input).

Lane 2: ab207727 IP in Human tonsil lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab207727 in Human tonsil lysate.

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

Exposure time: 10 seconds.

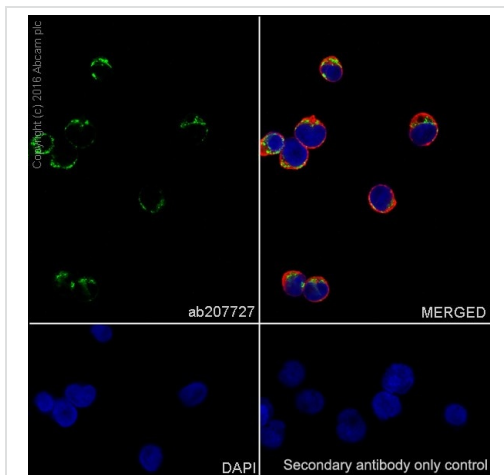


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD22 antibody [EPR20061] (ab207727)

Immunohistochemical analysis of paraffin-embedded human tonsil tissue labeling CD22 with ab207727 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution. Membranous and cytoplasmic staining on B cells of human tonsil [PMID: 11967115]. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

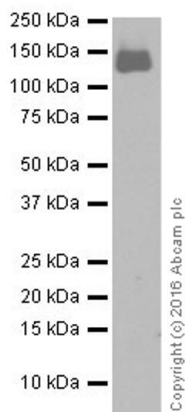


Immunocytochemistry/ Immunofluorescence - Anti-CD22 antibody [EPR20061] (ab207727)

Immunofluorescent analysis of 100% methanol-fixed Raji (Human Burkitt's lymphoma cell line) cells labeling CD22 with ab207727 at 1/100 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor[®] 488) ([ab150077](#)) secondary antibody at 1/1000 dilution (green). Confocal image showing cytoplasmic staining on Raji cell line.

The nuclear counter stain is DAPI (blue). Tubulin is detected with [ab195889](#) (Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor[®] 594)) at 1/200 dilution (red).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat anti-rabbit IgG (Alexa Fluor[®] 488) ([ab150077](#)) at 1/1000 dilution.



Western blot - Anti-CD22 antibody [EPR20061]
(ab207727)

Anti-CD22 antibody [EPR20061] (ab207727) at 1/1000 dilution +
Human fetal spleen lysate at 10 µg

Secondary

VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) at 1/4000
dilution

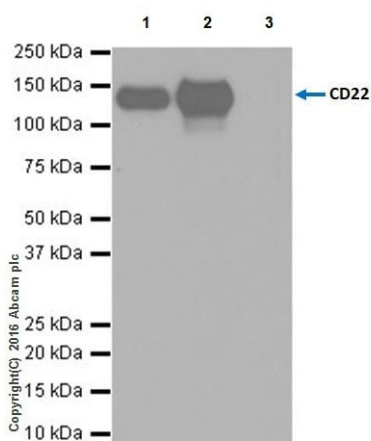
Predicted band size: 95 kDa

Observed band size: 130 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.

The expression profile/ molecular weight observed is consistent
with what has been described in the literature (PMID: 24264377 &
21178016).



Immunoprecipitation - Anti-CD22 antibody
[EPR20061] (ab207727)

CD22 was immunoprecipitated from 0.35 mg of Raji (Human
Burkitt's lymphoma cell line) whole cell lysate with ab207727 at 1/30
dilution. Western blot was performed from the immunoprecipitate
using ab207727 at 1/2000 dilution. VeriBlot for IP Detection
Reagent (HRP) ([ab131366](#)), was used for detection at 1/1000
dilution.

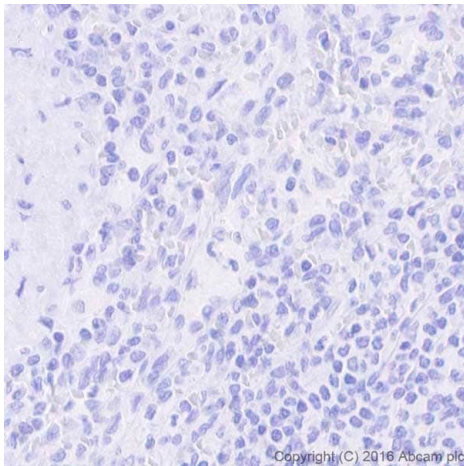
Lane 1: Raji whole cell lysate, 10 µg (Input).

Lane 2: ab207727 IP in Raji whole cell lysate.

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab207727 in
Raji whole cell lysate.

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

Exposure time: 10 seconds.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD22 antibody [EPR20061] (ab207727)

Immunohistochemical analysis of paraffin-embedded human thymoma tissue labeling CD22 with ab207727 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution.

Negative control: no staining on human thymoma [PMID: 11967115].

Counter stained with Hematoxylin.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Why choose a recombinant antibody?



Anti-CD22 antibody [EPR20061] (ab207727)

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