

### Anti-CD43 antibody [EPR21904] ab235453

リコンビナント **RabMAb**

画像数 6

#### 製品の概要

製品名	Anti-CD43 antibody [EPR21904]
製品の詳細	Rabbit monoclonal [EPR21904] to CD43
由来種	Rabbit
アプリケーション	<b>適用あり:</b> WB, IHC-P, ICC/IF, Flow Cyt
種交差性	<b>交差種:</b> 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: HL-60, Ramos, IM-9 and THP-1 whole cell lysates. IHC-P: Human tonsil and B-cell lymphoma tissues. ICC/IF: IM-9 cells. Flow: IM-9 cells.
特記事項	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</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: PBS, 50% 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	EPR21904
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ab235453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 100-150 kDa (predicted molecular weight: 40 kDa).
IHC-P		1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		1/100.
Flow Cyt		1/50.

## ターゲット情報

### 機能

One of the major glycoproteins of thymocytes and T lymphocytes. Plays a role in the physicochemical properties of the T-cell surface and in lectin binding. Presents carbohydrate ligands to selectins. Has an extended rodlike structure that could protrude above the glycocalyx of the cell and allow multiple glycan chains to be accessible for binding. Is a counter receptor for SN/Siglec-1 (By similarity). During T-cell activation is actively removed from the T-cell-APC (antigen-presenting cell) contact site thus suggesting a negative regulatory role in adaptive immune response.

### 組織特異性

Cell surface of thymocytes, T-lymphocytes, neutrophils, plasma cells and myelomas.

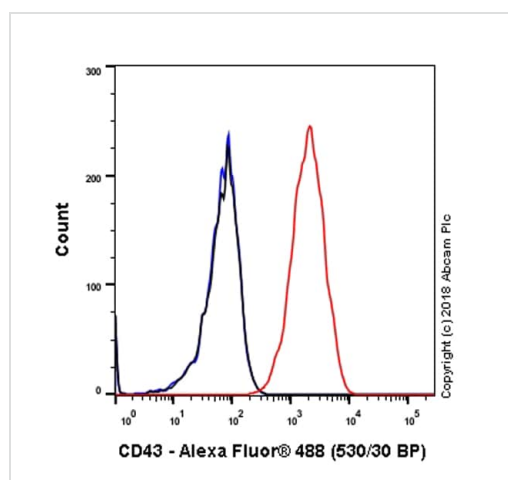
### 翻訳後修飾

Glycosylated; has a high content of sialic acid and O-linked carbohydrate structures.

### 細胞内局在

Membrane.

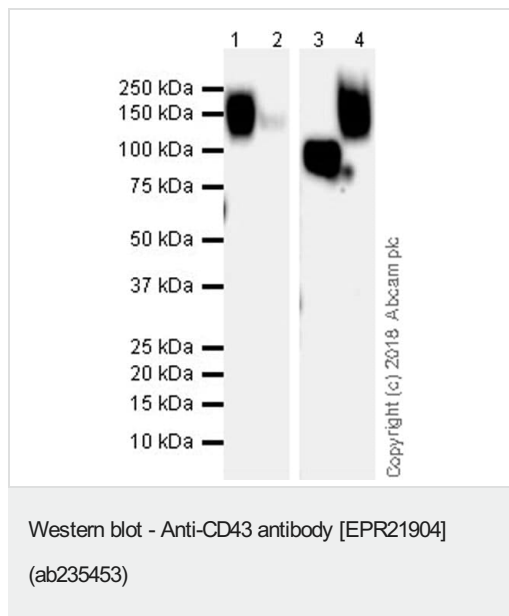
## 画像



Flow cytometric analysis of IM-9 (human multiple myeloma B lymphoblast cell line) cell line labeling CD43 with ab235453 at 1/50 (red) compared with a Rabbit IgG, monoclonal [EPR25A] - Isotype Control (**ab172730**) (black) and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**), at 1/2000 dilution was used as the secondary antibody.

Gated on viable cells.

Flow Cytometry - Anti-CD43 antibody [EPR21904]  
(ab235453)



**All lanes** : Anti-CD43 antibody [EPR21904] (ab235453) at 1/1000 dilution

**Lane 1** : HL-60 (human promyelocytic leukemia cell line) whole cell lysate

**Lane 2** : Ramos (human Burkitt's lymphoma cell line) whole cell lysate

**Lane 3** : IM-9 (human multiple myeloma B Lymphoblast cell line) whole cell lysate

**Lane 4** : THP-1 (human monocytic leukemia cell line) whole cell lysate

Lysates/proteins at 10 µg per lane.

### Secondary

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

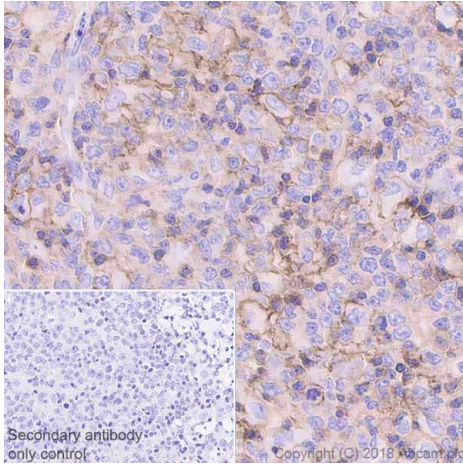
**Predicted band size:** 40 kDa

**Observed band size:** 100-150 kDa

**Exposure time:** 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.

The molecular mass observed is consistent with what has been described in the literature (PMID: 2794085). We observed low CD43 expression in the Ramos B cell line which is consistent with the literature (PMID: 24999313).

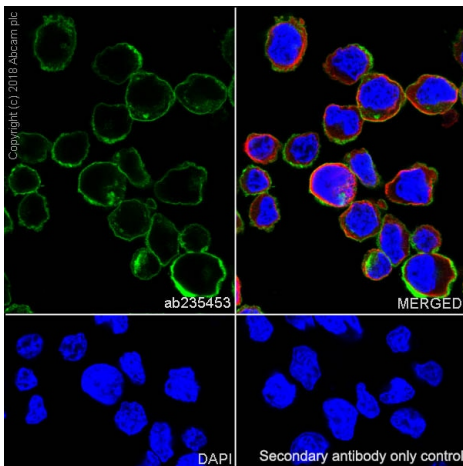


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD43 antibody  
[EPR21904] (ab235453)

Immunohistochemical analysis of paraffin-embedded human B cell lymphoma tissue labeling CD43 with ab235453 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Membranous staining on human B cell lymphoma (PMID: 2794085). Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

Heat mediated antigen retrieval was performed with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

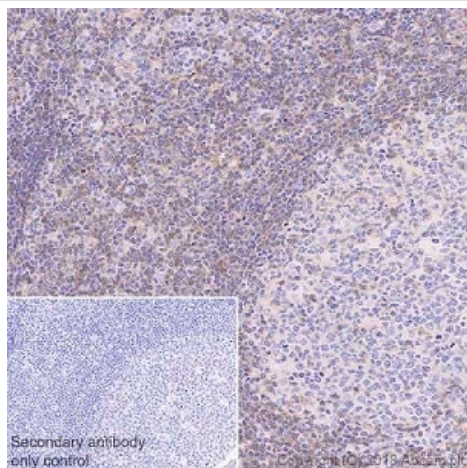


Immunocytochemistry/ Immunofluorescence - Anti-CD43 antibody [EPR21904] (ab235453)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized IM-9 (human multiple myeloma B lymphoblast cell line) cells labeling CD43 with ab235453 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green). Confocal image showing membranous staining on the IM-9 cell line.

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

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD43 antibody [EPR21904] (ab235453)

Immunohistochemical analysis of paraffin-embedded human tonsil tissue labeling CD43 with ab235453 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Positive staining in the T cell zone and scattered T cells in the germinal center (PMID: 2794085). Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

Heat mediated antigen retrieval was performed with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-CD43 antibody [EPR21904] (ab235453)

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

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