

Product datasheet

Anti-CD43 antibody [EPR21903] ab235452

Recombinant RabMAb

5 Images

Overview

Product name	Anti-CD43 antibody [EPR21903]
Description	Rabbit monoclonal [EPR21903] to CD43
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HL-60, Ramos, IM-9 and THP-1 whole cell lysates; Human colon and lung lysates. IHC-P: Human tonsil and B cell lymphoma tissue. ICC/IF: IM-9 cells.
General notes	<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>

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR21903
Isotype	IgG

Applications

The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of ab235452 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000. Predicted molecular weight: 40 kDa.
IHC-P		1/2000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		1/500.

Target

Function

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.

Tissue specificity

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

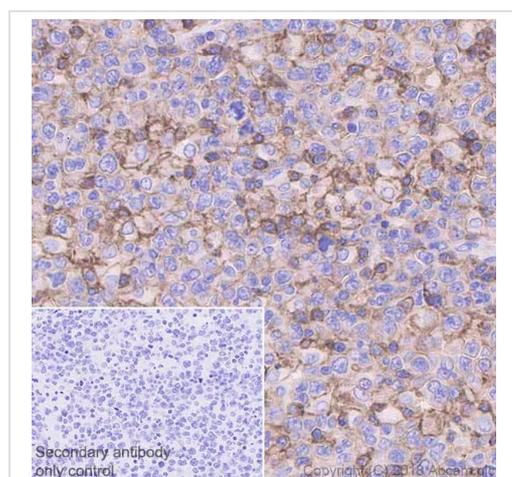
Post-translational modifications

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

Cellular localization

Membrane.

Images



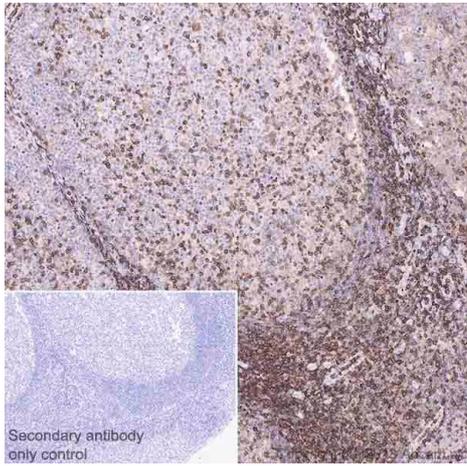
Immunohistochemical analysis of paraffin-embedded human B cell lymphoma tissue labeling CD43 with ab235452 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ready to use.

Membranous staining on human B cell lymphoma (PMID: 2794085) is observed. 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 using [ab93684](#) (Tris/EDTA buffer, pH 9.0).

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD43 antibody
[EPR21903] (ab235452)

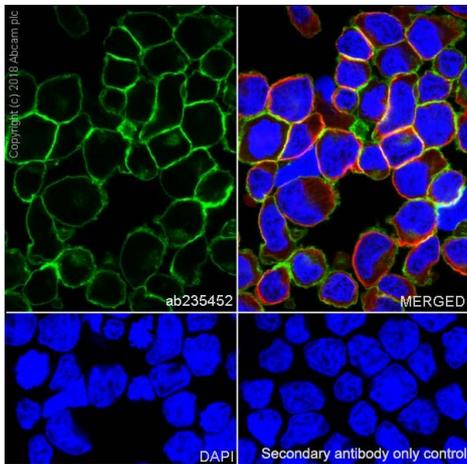


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD43 antibody [EPR21903] (ab235452)

Immunohistochemical analysis of paraffin-embedded human tonsil tissue labeling CD43 with ab235452 at 1/2000 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) is observed. 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 using [ab93684](#) (Tris/EDTA buffer, pH 9.0).

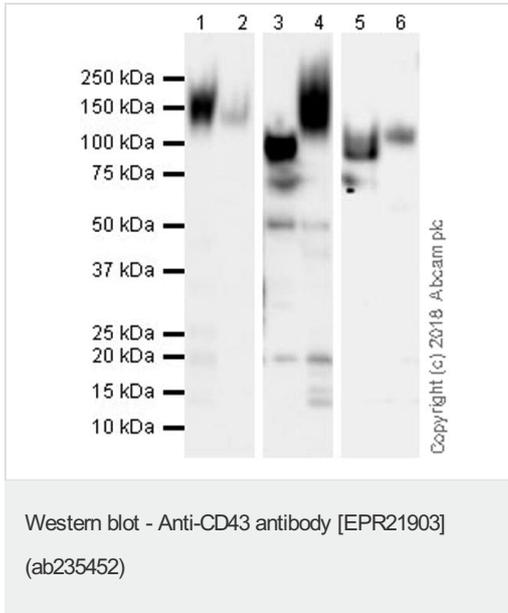


Immunocytochemistry/ Immunofluorescence - Anti-CD43 antibody [EPR21903] (ab235452)

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 ab235452 at 1/500 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](#)) at 1/200 dilution (red)

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



All lanes : Anti-CD43 antibody [EPR21903] (ab235452) at 1/1000 dilution

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

Lane 2 : Ramos (human Burkitt's lymphoma B lymphocyte), 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

Lane 5 : Human colon lysate

Lane 6 : Human lung 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: 100-150,20,50-60 kDa

Blocking and dilution buffer: 5% NFDm/TBST.

Exposure times.

Lanes 1-4: 15 seconds; Lanes 5 & 6: 3 minutes.

The expression profile observed is consistent with what has been described in the literature (PMIDs: 2794085, 23987472 and 7683406). We also observe additional bands at or below 20 kDa in some cell lines, which could be due to proteolytic cleavage of the protein (PMIDs: 18586676 and 15540986).

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 [EPR21903] (ab235452)

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

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