abcam

# ab101533

# Anti-CD43 antibody [SP55]

Recombinant | RabMAb | 20ul selling size

## Key facts

| | |
|---|---|
| **Isotype** | IgG |
| **Host species** | Rabbit |
| **Storage buffer** | pH: 7.6 Preservative: 0.1% Sodium azide Constituents: PBS, 1% BSA |
| **Form** | Liquid |
| **Clonality** | Monoclonal |
| **Immunogen** | The exact immunogen used to generate this antibody is proprietary information. |
| **Clone number** | SP55 |
| **Purification technique** | Affinity purification Protein A/G |
| **Purification notes** | Purified from TCS by protein A/G. |

## Reactivity data

## Flow Cyt

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | - |
| **Notes** | ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. |

## WB

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1/200 |
| **Notes** | - |

## IHC-P

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1/200 |
| **Notes** | Antigen retrieval is recommended: Boil tissue sections in 10mM citrate buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min. |

## ICC/IF

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1/50 |
| **Notes** | - |

# Target data

See full target information SPN

| | |
|---|---|
| **Function** | Predominant cell surface sialoprotein of leukocytes which regulates multiple T-cell functions, including T-cell activation, proliferation, differentiation, trafficking and migration. Positively regulates T-cell trafficking to lymph-nodes via its association with ERM proteins (EZR, RDX and MSN) (By similarity). Negatively regulates Th2 cell differentiation and predisposes the differentiation of T-cells towards a Th1 lineage commitment. Promotes the expression of IFN-gamma by T-cells during T-cell receptor (TCR) activation of naive cells and induces the expression of IFN-gamma by CD4(+) T-cells and to a lesser extent by CD8(+) T-cells (PubMed:18036228). Plays a role in preparing T-cells for cytokine sensing and differentiation into effector cells by inducing the expression of cytokine receptors IFNGR and IL4R, promoting IFNGR and IL4R signaling and by mediating the clustering of IFNGR with TCR (PubMed:24328034). Acts as a major E-selectin ligand responsible for Th17 cell rolling on activated vasculature and recruitment during inflammation. Mediates Th17 cells, but not Th1 cells, adhesion to E-selectin. Acts as a T-cell counter-receptor for SIGLEC1 (By similarity). CD43 cytoplasmic tail. Protects cells from apoptotic signals, promoting cell survival. |

## Storage

| | |
|---|---|
| **Shipped at conditions** | Conditional Ambient |
| **Appropriate short-term storage conditions** | +4°C |
| **Appropriate long-term storage conditions** | +4°C |

## Product promise

**Tested**

We have tested this species and application combination and it works. It is covered by our product promise.

**Expected**

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

**Predicted**

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

**Not recommended**

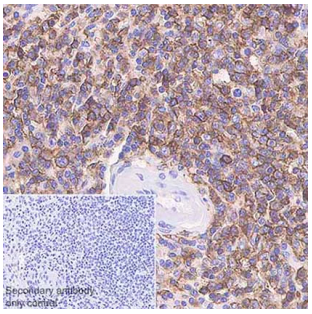
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

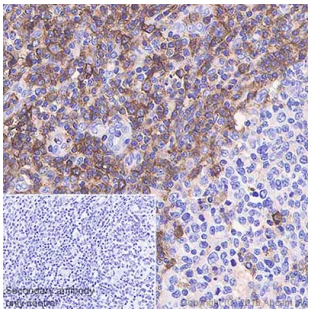
## 7 product images



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD43 antibody [SP55] (ab101533)

CD43 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CD43 antibody

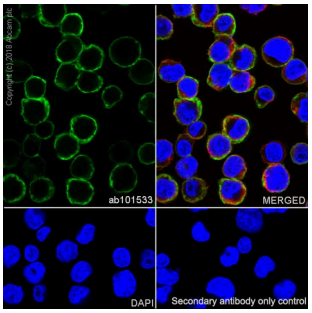
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human spleen tissue sections labeling CD43 with ab101533 at 1/200 dilution (0.55 µg/ml). Heat mediated antigen retrieval with sodium citrate buffer (pH 6.0, epitope retrieval solution 1) for 10mins. Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) was used as the secondary antibody. Hematoxylin was used as a counterstain. Positive staining on human spleen, performed on a Leica Biosystems BOND™ RX instrument.
The section was incubated with ab101533 for 30 mins at room temperature.



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD43 antibody [SP55] (ab101533)

CD43 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CD43 antibody

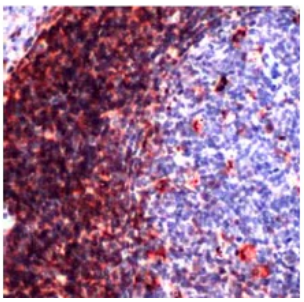
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human tonsil tissue sections labeling CD43 with ab101533 at 1/200 dilution (0.55 µg/ml). Heat mediated antigen retrieval with sodium citrate buffer (pH 6.0, epitope retrieval solution 1) for 10mins. Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) was used as the secondary antibody. Hematoxylin was used as a counterstain. Positive staining on human tonsil, performed on a Leica Biosystems BOND™ RX instrument.
The section was incubated with ab101533 for 30 mins at room temperature.




### Immunocytochemistry/ Immunofluorescence - Anti-CD43 antibody [SP55] (ab101533)

CD43 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-CD43 antibody

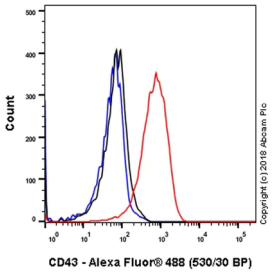
Immunocytochemistry/ Immunofluorescence analysis of IM-9 (human multiple myeloma B Lymphoblast) cells labeling CD43 with purified ab101533 at 1:50 (2 µg/ml). Cells were fixed in 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. Cells were counterstained with ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1:200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) was used as the secondary antibody at 1:1000 (2 µg/ml) dilution. DAPI nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



## Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD43 antibody [SP55] (ab101533)

CD43 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CD43 antibody

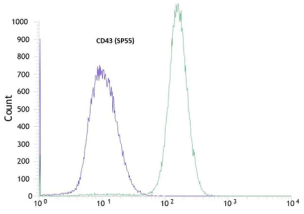
Staining of Human CD43 in a Formalin/PFA-fixed paraffin-embedded section of Human Tonsil using ab101533 at a dilution of 1/200.




## Flow Cytometry - Anti-CD43 antibody [SP55] (ab101533)

CD43 Flow Cytometry staining using rabbit Anti-CD43 antibody

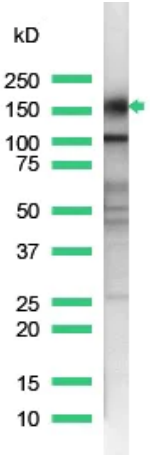
Flow Cytometry analysis of IM-9 (human multiple myeloma B Lymphoblast) cells labeling CD43 with purified ab101533 at 1:20 dilution (5.05 µg/ml) - Red. A Goat anti rabbit IgG (Alexa Fluor® 488, ab150081) secondary antibody was used at 1:2000 dilution. Isotype control - Rabbit monoclonal IgG (ab172730) - Black. Unlabeled control - Blue.




## Flow Cytometry - Anti-CD43 antibody [SP55] (ab101533)

CD43 Flow Cytometry staining using rabbit Anti-CD43 antibody

Flow cytometric analysis of rabbit anti-CD43 (SP55) antibody ab101533 (1/100) in Jurkat cells (green) compared to negative control of rabbit IgG (blue).




## Western blot - Anti-CD43 antibody [SP55] (ab101533)

All lanes:
Western blot - Anti-CD43 antibody [SP55] (ab101533) at 1/25 dilution

All lanes:
Jurkat cell lysate

Predicted band size: 39 kDa, 40 kDa

Observed band size: 105 kDa, 160 kDa, 55 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.