abcam

ab257327

Anti-CD43 antibody [SPN/2049R] - BSA and Azide free

Recombinant

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	Recombinant Full Length Protein corresponding to Human SPN. Database link P16150
Carrier free	Yes
Clone number	SPN/2049R
Purification technique	Affinity purification Protein A/G
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →
Purification notes	Purified from bioreactor concentrate.

Reactivity data

IHC-P

Tested

Species	Human
Dilution info	0.5-1 µg/mL
Notes	Incubate with primary antibody for 30 minutes at room temperature. Perform heat-mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Flow Cyt

Tested

Species	Human
Dilution info	1-2 µg for 10^6 Cells
Notes	-

WB

Tested

Species	Human
Dilution info	1-2 µg/mL
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1-2 µg/mL
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	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

ab257327 is the carrier-free version of ab257316.
What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Conjugation ready
Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-

on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

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

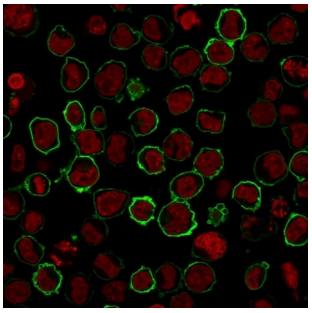
We do not recommend this combination. It is not covered by our product promise.

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.

4 product images

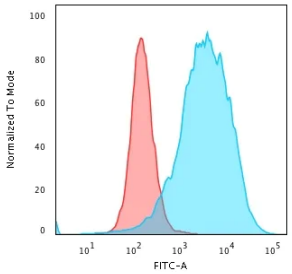


Immunocytochemistry/ Immunofluorescence - Anti-CD43 antibody [SPN/2049R] - BSA and Azide free (ab257327)

CD43 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-CD43 antibody

K562 (human chronic myelogenous leukemia cell line from bone marrow) cells labeling CD43 using ab257316 at 2 µg/ml, followed by Goat anti-Rabbit IgG CF488 (green) in ICC/IF.
The nuclear counter stain is NucSpot (red).

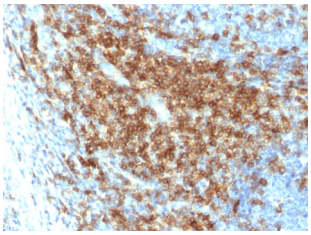
This data was produced with ab257316, the same antibody in a different formulation with BSA and Azide.



Flow Cytometry - Anti-CD43 antibody [SPN/2049R] - BSA and Azide free (ab257327)

CD43 Flow Cytometry staining using rabbit Anti-CD43 antibody

PFA-fixed K562 (human chronic myelogenous leukemia cell line from bone marrow) cells labeling CD43 using ab257316, followed by Goat anti-Rabbit IgG CF488 (blue) as compared with an isotype control (red).
This data was produced with ab257316, the same antibody in a different formulation with BSA and Azide.

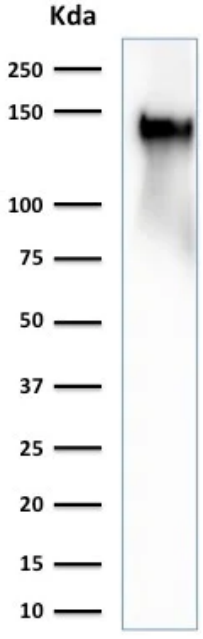


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD43 antibody [SPN/2049R] - BSA and Azide free (ab257327)

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

Formalin-fixed, paraffin-embedded human tonsil tissue labeling CD43 using ab257316 at 2 µg/ml in immunohistochemical analysis.
Staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes.

This data was produced with ab257316, the same antibody in a different formulation with BSA and Azide.



Western blot - Anti-CD43 antibody [SPN/2049R] - BSA and Azide free (ab257327)

CD43 Western blot staining of K562 (human chronic myelogenous leukemia cell line from bone marrow) cell lysate using rabbit Anti-CD43 antibody

This data was produced with ab257316, the same antibody in a different formulation with BSA and Azide.
All lanes:
Western blot - Anti-CD43 antibody [SPN/2049R] (ab257316) at 2 µg/mL

All lanes:
K562 (human chronic myelogenous leukemia cell line from bone marrow) cell lysate

Predicted band size: 40 kDa

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