abcam

ab245742

Anti-Sialoadhesin/CD169 antibody [SP216] - BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	SP216
Purification technique	Affinity purification Protein A/G
Concentration	1.033 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →
Purification notes	Purified from TCS by protein A/G.

Reactivity data

IHC-P

Tested

Species	Human

Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Target data

See full target information SIGLEC1

Function

Macrophage-restricted adhesion molecule that mediates sialic-acid dependent binding to lymphocytes, including granulocytes, monocytes, natural killer cells, B-cells and CD8 T-cells. Plays a crucial role in limiting bacterial dissemination by engaging sialylated bacteria to promote effective phagocytosis and antigen presentation for the adaptive immune response (PubMed:12940982, PubMed:33489013). Mediates the uptake of various enveloped viruses via sialic acid recognition and subsequently induces the formation of intracellular compartments filled with virions (VCCs) (PubMed:28129379). In turn, enhances macrophage-to-T-cell transmission of several viruses including HIV-1 or SARS-CoV-2 (PubMed:28129379, PubMed:34782760). Acts as an endocytic receptor mediating clathrin dependent endocytosis. Preferentially binds to alpha-2,3-linked sialic acid (PubMed:12940982). Binds to SPN/CD43 on T-cells (By similarity). May play a role in hemopoiesis. Plays a role in the inhibition of antiviral innate immune by promoting TBK1 degradation via TYROBP and TRIM27-mediated ubiquitination (PubMed:26358190). (Microbial infection) Facilitates viral cytoplasmic entry into activated dendritic cells via recognition of sialylated gangliosides pesent on viral membrane.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab245742 is the carrier-free version of ab183356.

Patented technology

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

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.

Compatibility

This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

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

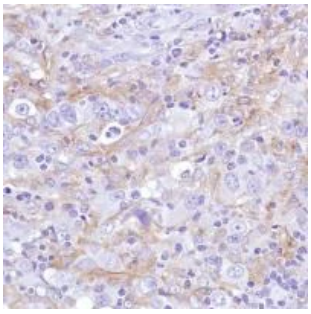
We do not recommend this combination. It is not covered by our product promise.

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.

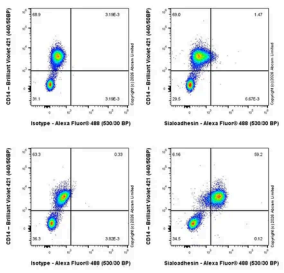
Full details and terms and conditions can be found here:
Terms & Conditions.

8 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Sialoadhesin/CD169 antibody [SP216] - BSA and Azide free (ab245742)

Immunohistochemical analysis of formalin fixed, paraffin embedded human HK lymphoma tissue sections labeling Sialoadhesin/CD169 using ab183356 at a 1/100 dilution.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide (ab183356).



Flow Cytometry (Intracellular) - Anti-Sialoadhesin/CD169 antibody [SP216] - BSA and Azide free (ab245742)

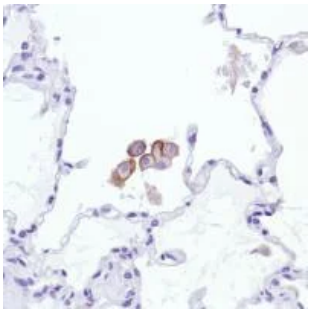
Sialoadhesin/CD169 Flow Cytometry (Intracellular) staining of Human PBMC isolated CD14+ monocytes treated with 1000IU/ml IFNα for 24hours using rabbit Anti-Sialoadhesin/CD169 antibody

This data was developed using ab183356, the same antibody clone in a different buffer formulation.

Intracellular flow cytometric analysis of 4% paraformaldehyde fixed 0.1% Tween-20 permeabilized Human PBMC isolated CD14+ monocytes treated with 1000IU/ml IFNα for 24hours (Lower left and right) labelling Sialoadhesin/CD169 with ab183356 at 1/50 dilution (1ug)/ (Right) compared with a Rabbit monoclonal IgG (ab172730) / Left - Isotype Control (Left). Untreated Human PBMC isolated CD14+ monocytes (Upper left and right).

Cells blocked with 20ug/ml Human IgG.

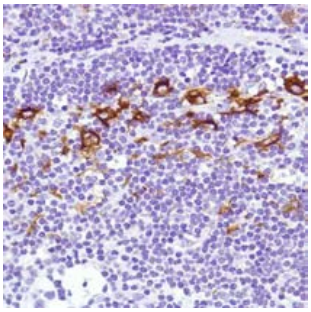
Cells were surface stained with anti-CD14 conjugated to BV421. Then fixed with 4% PFA for 10 min followed by intracellular staining with rabbit IgG or our antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Sialoadhesin/CD169 antibody [SP216] - BSA and Azide free (ab245742)

Sialoadhesin/CD169 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Sialoadhesin/CD169 antibody

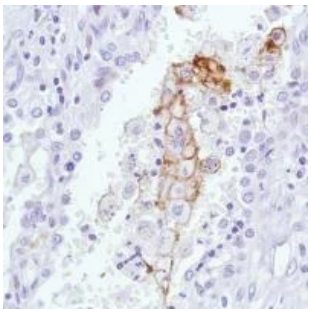
Immunohistochemical analysis of formalin fixed, paraffin embedded human lung tissue sections labeling Sialoadhesin/CD169 using ab183356 at a 1/100 dilution.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide (ab183356).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Sialoadhesin/CD169 antibody [SP216] - BSA and Azide free (ab245742)

Sialoadhesin/CD169 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Sialoadhesin/CD169 antibody

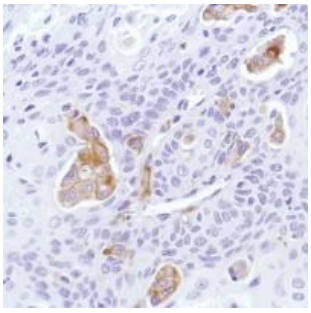
Immunohistochemical analysis of formalin fixed, paraffin embedded human lymph node tissue sections labeling Sialoadhesin/CD169 using ab183356 at a 1/100 dilution.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide (ab183356).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Sialoadhesin/CD169 antibody [SP216] - BSA and Azide free (ab245742)

Sialoadhesin/CD169 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Sialoadhesin/CD169 antibody

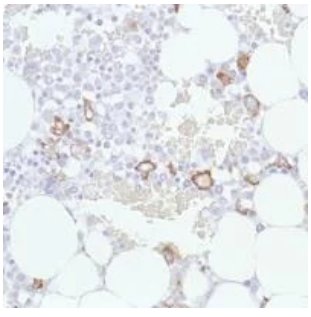
Immunohistochemical analysis of formalin fixed, paraffin embedded human squamous cell lung carcinoma tissue sections labeling Sialoadhesin/CD169 using ab183356 at a 1/100 dilution.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide (ab183356).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Sialoadhesin/CD169 antibody [SP216] - BSA and Azide free (ab245742)

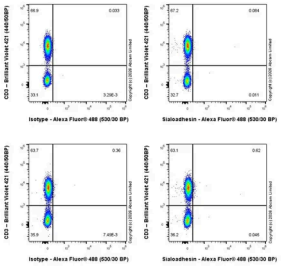
Sialoadhesin/CD169 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Sialoadhesin/CD169 antibody

Immunohistochemical analysis of formalin fixed, paraffin embedded human squamous cell cervical carcinoma tissue sections labeling Sialoadhesin/CD169 using ab183356 at a 1/100 dilution.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide (ab183356).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Sialoadhesin/CD169 antibody [SP216] - BSA and Azide free (ab245742)

Immunohistochemical analysis of formalin fixed, paraffin embedded human bone marrow tissue sections labeling Sialoadhesin/CD169 using ab183356 at a 1/100 dilution.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide (ab183356).



Flow Cytometry (Intracellular) - Anti-Sialoadhesin/CD169 antibody [SP216] - BSA and Azide free (ab245742)

Sialoadhesin/CD169 Flow Cytometry (Intracellular) staining of Human PBMC MACS-CD14 neg treated with 1000IU/ml IFNα for 24hours using rabbit Anti-Sialoadhesin/CD169 antibody

This data was developed using ab183356, the same antibody clone in a different buffer formulation.

Intracellular flow cytometric analysis of 4% paraformaldehyde fixed 0.1% Tween-20 permeabilized Human PBMC MACS-CD14 neg treated with 1000IU/ml IFNα for 24hours (Lower left and right) labelling Sialoadhesin/CD169 with ab183356 at 1/50 dilution (1ug)/ (Right) compared with a Rabbit monoclonal IgG (ab172730) / Left - Isotype Control (Left). Untreated Human PBMC MACS-CD14 neg (Upper left and right)

Cells blocked with 20ug/ml Human IgG.

Cells were surface stained with anti-CD3 conjugated to BV421. Then fixed with 4% PFA for 10 min followed by intracellularly staining with rabbit IgG or our antibody. Gated on Lymphocytes

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