abcam

ab245735

Anti-Sialoadhesin/CD169 antibody [SP213] - BSA and Azide free

Recombinant | RabMAb | Advanced Validation

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	SP213
Purification technique	Affinity purification Protein A/G
Concentration	0.982 - 1.03 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	Antigen retrieval: Boil tissue section in 10mM citrate buffer, pH 6.0 for 10 minutes followed by cooling at room temperature for 20 minutes.

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

mIHC

Tested

Species	Human
Dilution info	1/2000
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

ab245735 is the carrier-free version of ab227672.

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.

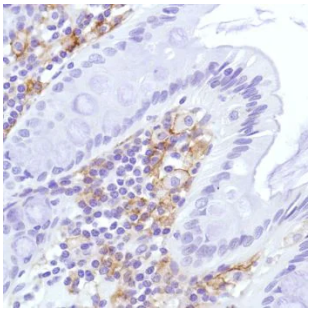
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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.

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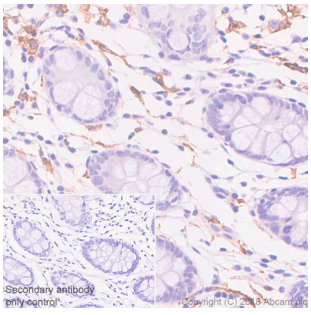
9 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Sialoadhesin/CD169 antibody [SP213] - BSA and Azide free (ab245735)

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

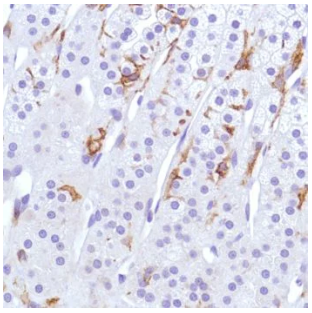
Formalin-fixed, paraffin-embedded human colon tissue stained for Sialoadhesin/CD169 with ab227672 at 1/100 dilution in immunohistochemical analysis.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide (ab227672).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Sialoadhesin/CD169 antibody [SP213] - BSA and Azide free (ab245735)

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

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human colon tissue sections labeling Sialoadhesin/CD169 with ab227672 at 1/100 dilution (1.17 µg/ml). Heat mediated antigen retrieval was performed Heat mediated antigen retrieval with sodium citrate buffer (pH 6.0, epitope retrieval solution 1) for 10 mins. Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.
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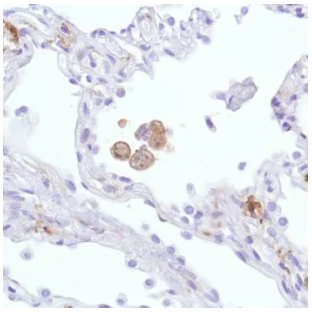


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Sialoadhesin/CD169 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Sialoadhesin/CD169 antibody

Formalin-fixed, paraffin-embedded human liver tissue stained for Sialoadhesin with ab227672 at 1/100 dilution in immunohistochemical analysis.

This data was developed using the same antibody clone in a different buffer formulation containing PBS#44; BSA#44; and sodium azide (ab227672)

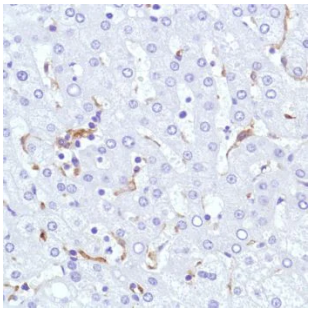


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Sialoadhesin/CD169 antibody [SP213] - BSA and Azide free (ab245735)

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

Formalin-fixed, paraffin-embedded human bone marrow tissue stained for Sialoadhesin with ab227672 at 1/100 dilution in immunohistochemical analysis.

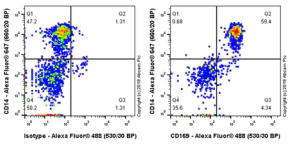
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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Sialoadhesin/CD169 antibody [SP213] - BSA and Azide free (ab245735)

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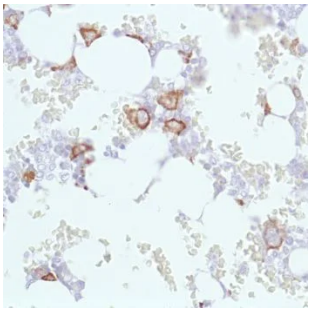
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This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide (ab227672).



Flow Cytometry (Intracellular) - Anti-Sialoadhesin/CD169 antibody [SP213] - BSA and Azide free (ab245735)

Sialoadhesin/CD169 Flow Cytometry (Intracellular) staining using rabbit Anti-Sialoadhesin/CD169 antibody

Intracellular Flow Cytometry analysis of Human PBMC treated with 20ng/ml IFN-gamma for 24 hours cells labeling Sialoadhesin/CD169 with purified ab227672 at 1/20 dilution (6µg/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 0.1% Tween-20. 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 - Unlabelled cells / blue. This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab227672).

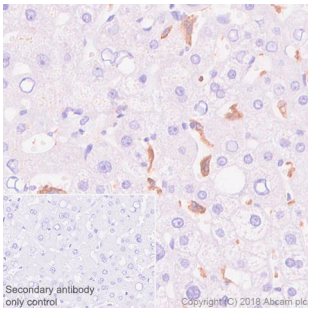


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Sialoadhesin/CD169 antibody [SP213] - BSA and Azide free (ab245735)

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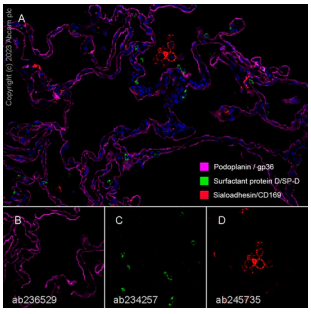
Formalin-fixed, paraffin-embedded human lung tissue stained for Sialoadhesin with ab227672 at 1/100 dilution in immunohistochemical analysis.

This data was developed using the same antibody clone in a different buffer formulation containing PBS#44; BSA#44; and sodium azide (ab227672)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Sialoadhesin/CD169 antibody [SP213] - BSA and Azide free (ab245735)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human liver tissue sections labeling Sialoadhesin/CD169 with ab227672 at 1/100 dilution (1.17 µg/ml). Heat mediated antigen retrieval was performed Heat mediated antigen retrieval with sodium citrate buffer (pH 6.0, epitope retrieval solution 1) for 10 mins. Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.
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Multiplex immunohistochemistry - Anti-Sialoadhesin/CD169 antibody [SP213] - BSA and Azide free (ab245735)

Fluorescence multiplex immunohistochemical analysis of formalin/PFA-fixed paraffin-embedded Human lung tissue. Panel A: Merged staining of anti-Podoplanin / gp36 (magenta; Opal™690), anti-Surfactant protein D/SP-D (green; Opal™520) and anti-Sialoadhesin/CD169 (red; Opal™570) on human lung. Panel B: Anti-Podoplanin / gp36 stained on alveolar type I cells. Panel C: Anti-Surfactant protein D/SP-D stained on alveolar type II cells. Panel D: Anti-Sialoadhesin/CD169 stained on macrophages. The section was incubated in three rounds of staining: in the order of ab236529 and ab234257 for 30 mins, then ab245735 for 10 mins at room temperature. Each round was followed by a separate fluorescent tyramide signal amplification system. The immunostaining was performed on a Leica Biosystems BOND® RX instrument with an Opal™ 4-color kit. Image acquisition was performed with Leica SP8 confocal microscope. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins. Counterstained with DAPI.

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