abcam

ab233749

Anti-DC-SIGN antibody [5C2G9]

Mouse Monoclonal DC-SIGN antibody. Suitable for Flow Cyt, WB and reacts with Human samples. Cited in 1 publication. Immunogen corresponding to Recombinant Fragment Protein within Human CD209 aa 250 to C-terminus.

Image updates are in progress. Products remain available and covered by the Abcam Product Promise. Learn more.

Key facts

Isotype	IgG1
Host species	Mouse
Storage buffer	Preservative: 0.05% Sodium azide Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	Recombinant Fragment Protein within Human CD209 aa 250 to C-terminus. The exact immunogen used to generate this antibody is proprietary information. Database link Q9NNX6
Clone number	5C2G9
Purification technique	Affinity purification Protein G
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →
Purification notes	Purified fom tissue culture supernatant.

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	1/200 - 1/400
Notes	-

Predicted

Species	Chimpanzee, Rhesus monkey, Gorilla
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	1/500 - 1/2000
Notes	-

Predicted

Species	Chimpanzee, Rhesus monkey, Gorilla
Dilution info	-
Notes	-

Target data

See full target information CD209

Function Pathogen-recognition receptor expressed on the surface of immature dendritic cells (DCs) and involved in initiation of primary immune response. Thought to mediate the endocytosis of pathogens which are subsequently degraded in lysosomal compartments. The receptor returns to the cell membrane surface and the pathogen-derived antigens are presented to resting T-cells via MHC class II proteins to initiate the adaptive immune response. On dendritic cells (DCs) it is a high affinity receptor for ICAM2 and ICAM3 by binding to mannose-like carbohydrates (PubMed:10721994, PubMed:10721995, PubMed:11017109, PubMed:12574325). May act as a DC rolling receptor that mediates transendothelial migration of DC presursors from blood to tissues by binding endothelial ICAM2 (PubMed:11017109). Forms a first contact between DC and resting T cell, througth ICAM3 binding, facilitating the downstream DC-T cell

clustering process and DC-induced proliferation of resting T Cells (PubMed:10721994, PubMed:10721995). (Microbial infection) Acts as an attachment receptor for HIV-1 and HIV-2. (Microbial infection) Acts as an attachment receptor for Ebolavirus. (Microbial infection) Acts as an attachment receptor for Cytomegalovirus. (Microbial infection) Acts as an attachment receptor for HCV. (Microbial infection) Acts as an attachment receptor for Dengue virus. (Microbial infection) Acts as an attachment receptor for Measles virus. (Microbial infection) Acts as an attachment receptor for Herpes simplex virus 1. (Microbial infection) Acts as an attachment receptor for Influenzavirus A. (Microbial infection) Acts as an attachment receptor for SARS-CoV. (Microbial infection) Acts as an attachment receptor for Japanese encephalitis virus. (Microbial infection) Acts as an attachment receptor for Lassa virus (PubMed:23966408). Acts as an attachment receptor for Marburg virusn. (Microbial infection) Acts as an attachment receptor for Respiratory syncytial virus. (Microbial infection) Acts as an attachment receptor for Rift valley fever virus and uukuniemi virus. (Microbial infection) Acts as an attachment receptor for West-nile virus. (Microbial infection) Probably recognizes in a calcium-dependent manner high mannose N-linked oligosaccharides in a variety of bacterial pathogen antigens, including Leishmania pifanoi LPG, Lewis-x antigen in Helicobacter pylori LPS, mannose in Klebsiella pneumonae LPS, di-mannose and tri-mannose in Mycobacterium tuberculosis ManLAM and Lewis-x antigen in Schistosoma mansoni SEA (PubMed:16379498). Recognition of M.tuberculosis by dendritic cells occurs partially via this molecule (PubMed:16092920, PubMed:21203928).

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

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.

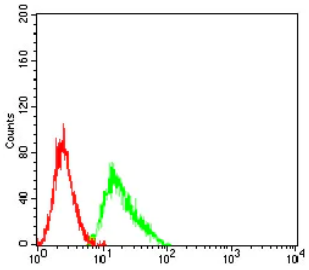
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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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1 product image



Flow Cytometry - Anti-DC-SIGN antibody [5C2G9] (ab233749)

DC-SIGN Flow Cytometry staining using mouse Anti-DC-SIGN antibody

Flow cytometric analysis of Ramos (human Burkitt's lymphoma cell line) cells labeling DC-SIGN with ab233749 at 1/200 dilution (green) compared with a negative control (red).

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