abcam

Product datasheet

Anti-DC-SIGN antibody ab5715

4 References 4 Images

Overview

Product name	Anti-DC-SIGN antibody
Description	Rabbit polyclonal to DC-SIGN
Host species	Rabbit
Tested applications	**Suitable for:** ICC/IF, IHC-P, WB
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide corresponding to Human DC-SIGN aa 384-404. (Peptide available as **ab6091**)
Positive control	Human placenta tissue lysate.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	pH: 7.2 Preservative: 0.02% Sodium azide Constituent: PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee	Our **Abpromise guarantee** covers the use of ab5715 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 20 µg/ml.
IHC-P		Use a concentration of 10 µg/ml.
WB		Use a concentration of 1 - 2 µg/ml. Detects a band of approximately 44 kDa.

Target

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. Probably recognizes in a calcium-dependent manner high mannose N-linked oligosaccharides in a variety of pathogen antigens, including HIV-1 gp120, HIV-2 gp120, SIV gp120, ebolavirus glycoproteins, cytomegalovirus gB, HCV E2, dengue virus gE, 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.
On DCs it is a high affinity receptor for ICAM2 and ICAM3 by binding to mannose-like carbohydrates. May act as a DC rolling receptor that mediates transendothelial migration of DC presursors from blood to tissues by binding endothelial ICAM2. Seems to regulate DC-induced T-cell proliferation by binding to ICAM3 on T-cells in the immunological synapse formed between DC and T-cells.

Tissue specificity

Predominantly expressed in dendritic cells and in DC-residing tissues. Also found in placental macrophages, endothelial cells of placental vascular channels, peripheral blood mononuclear cells, and THP-1 monocytes.

Sequence similarities

Contains 1 C-type lectin domain.

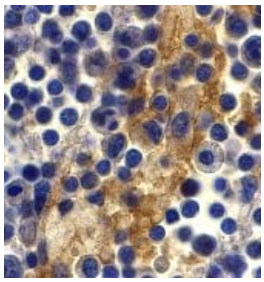
Domain

The tandem repeat domain, also called neck domain, mediates oligomerization.

Cellular localization

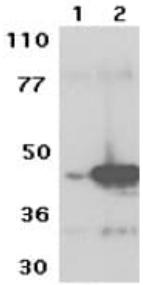
Secreted and Cell membrane.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DC-SIGN antibody (ab5715)

Immunohistochemistry of DC-SIGN in human lymph node tissue with DC-SIGN antibody at 10 µg/ml.



Western blot - Anti-DC-SIGN antibody (ab5715)

ab5715 at 0.5 µg /ml staining approximately 44kDa of human CD209 in Human placenta lysate by Western blot (ECL).

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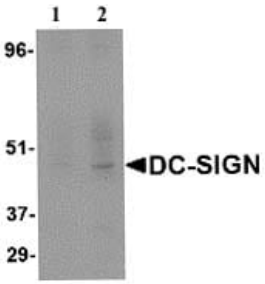

Western blot - Anti-DC-SIGN antibody (ab5715)

Lane 1 : Anti-DC-SIGN antibody (ab5715) at 1 µg/ml
Lane 2 : Anti-DC-SIGN antibody (ab5715) at 2 µg/ml

All lanes : Human placenta

Observed band size: 44 kDa

Immunocytochemistry/ Immunofluorescence - Anti-DC-SIGN antibody (ab5715)

Immunofluorescence of DC-SIGN in Human Lymph Node cells using ab5715 at 20 ug/ml.

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