

Product datasheet

Anti-DC-SIGN antibody [EPR5588] ab124828

Recombinant RabMAb

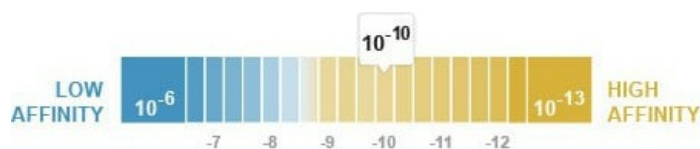
[3 References](#) [4 Images](#)

Overview

Product name	Anti-DC-SIGN antibody [EPR5588]
Description	Rabbit monoclonal [EPR5588] to DC-SIGN
Host species	Rabbit
Tested applications	Suitable for: WB Unsuitable for: IHC-P
Species reactivity	Reacts with: Human Does not react with: Mouse, Rat
Immunogen	Synthetic peptide within Human DC-SIGN aa 1-100. The exact sequence is proprietary. Database link: Q9NNX6
Positive control	WB: HACAT, fetal skin, fetal artery and Human small intestine lysates.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C.
Dissociation constant (K _D)	K _D = 1.19 x 10 ⁻¹⁰ M



[Learn more about K_D](#)

Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 0.05% BSA, 59% PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR5588
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab124828 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

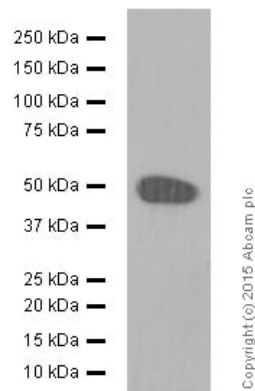
Application	Abreviews	Notes
WB		1/1000 - 1/10000. Detects a band of approximately 50 kDa (predicted molecular weight: 46 kDa).

Application notes Is unsuitable for IHC-P.

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 pneumoniae 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 precursors 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



Western blot - Anti-DC-SIGN antibody [EPR5588]
(ab124828)

Anti-DC-SIGN antibody [EPR5588] (ab124828) at 1/1000 dilution
(purified) + Human skin tissue lysate at 20 µg

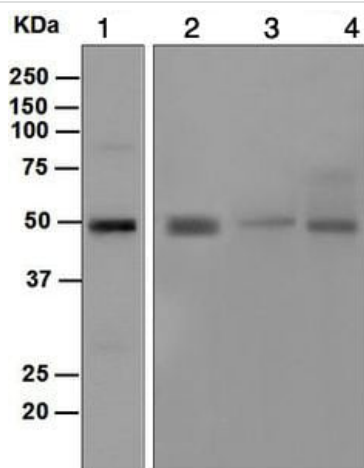
Secondary

Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at
1/1000 dilution

Predicted band size: 46 kDa

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.



Western blot - Anti-DC-SIGN antibody [EPR5588]
(ab124828)

All lanes : Anti-DC-SIGN antibody [EPR5588] (ab124828) at
1/1000 dilution (unpurified)

Lane 1 : HACAT cell lysate

Lane 2 : Fetal skin tissue lysate

Lane 3 : Fetal artery tissue lysate

Lane 4 : Human small intestine lysate

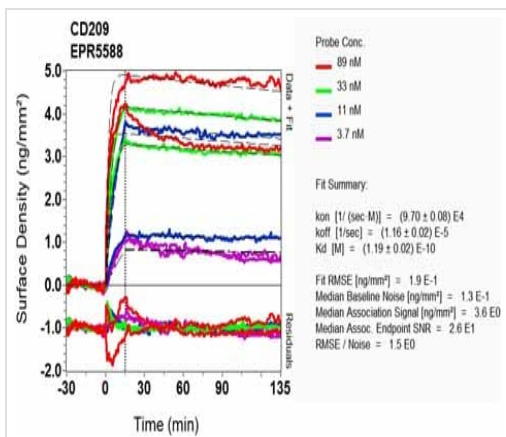
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP conjugated goat anti-rabbit at 1/2000 dilution

Predicted band size: 46 kDa

Observed band size: 50 kDa



SPR Scanning - Anti-DC-SIGN antibody
[EPR5588] (ab124828)

Equilibrium dissociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)

Why choose a
recombinant antibody?



**Research with
confidence**
Consistent and
reproducible results



**Long-term and
scalable supply**
Recombinant
technology



**Success from the
first experiment**
Confirmed
specificity



**Ethical standards
compliant**
Animal-free
production

Anti-DC-SIGN antibody [EPR5588] (ab124828)

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