abcam

Product datasheet

Anti-DC-SIGN antibody [EPR5588] - BSA and Azide free ab210401

Recombinant RabMAb

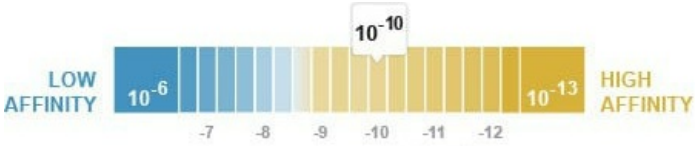
4 Images

Overview

Product name	Anti-DC-SIGN antibody [EPR5588] - BSA and Azide free
Description	Rabbit monoclonal [EPR5588] to DC-SIGN - BSA and Azide free
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. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HACAT, fetal skin, fetal artery and Human small intestine lysates.
General notes	ab210401 is the carrier-free version of **ab124828**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. 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. 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. 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 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. Do Not Freeze.
Dissociation constant (K_D)	$K_D = 1.19 \times 10^{-10}$ M



Learn more about K_D

Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR5588
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab210401 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		Use at an assay dependent concentration. Detects a band of approximately 50 kDa (predicted molecular weight: 46 kDa).

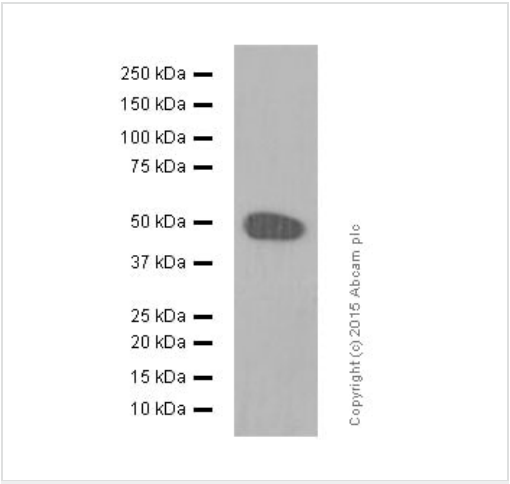
Application notes Is unsuitable for IHC-P.

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 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



Western blot - Anti-DC-SIGN antibody [EPR5588] - BSA and Azide free (ab210401)

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

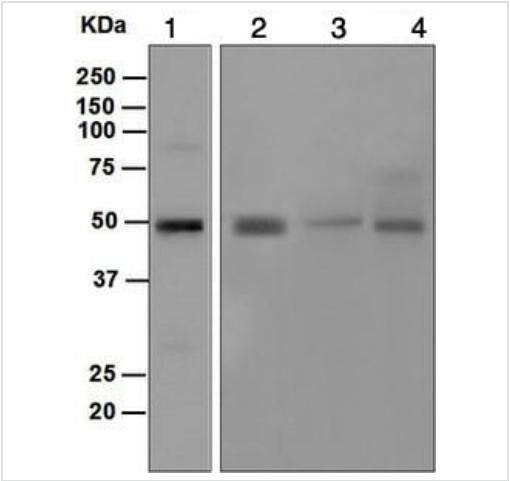
Secondary

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

Predicted band size: 46 kDa

This data was developed using **ab124828**, the same antibody clone in a different buffer formulation.

Blocking and dilution buffer: 5% NFDM/TBST.



Western blot - Anti-DC-SIGN antibody [EPR5588] - BSA and Azide free (ab210401)

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

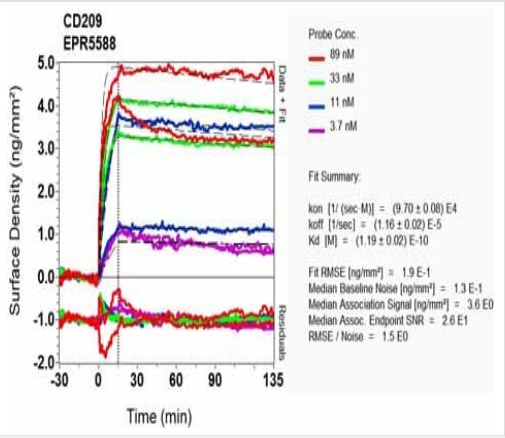
Lysates/proteins at 10 µg per lane.

Secondary

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

Predicted band size: 46 kDa
Observed band size: 50 kDa

This data was developed using **ab124828**, the same antibody clone in a different buffer formulation.



OI-RD Scanning - Anti-DC-SIGN antibody [EPR5588] - BSA and Azide free (ab210401)

This data was developed using **ab124828**, the same antibody clone in a different buffer formulation.Equilibrium disassociation constant (K_D)

Learn more about K_D

Click here to learn more about K_D

Anti-DC-SIGN antibody [EPR5588] - BSA and Azide free (ab210401)

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