

Anti-DC-SIGN + DC-SIGNR antibody [EPR22395-72] - BSA and Azide free ab245207

Recombinant RabMAb

7 Images

Overview

Product name	Anti-DC-SIGN + DC-SIGNR antibody [EPR22395-72] - BSA and Azide free
Description	Rabbit monoclonal [EPR22395-72] to DC-SIGN + DC-SIGNR - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF, Flow Cyt, IP
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	IHC-P: Human liver, tonsil and skin tissue. ICC/IF: THP-1 cells. Flow: THP-1 cells.
General notes	ab245207 is the carrier-free version of ab245115 .

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.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR22395-72
Isotype	IgG

Applications

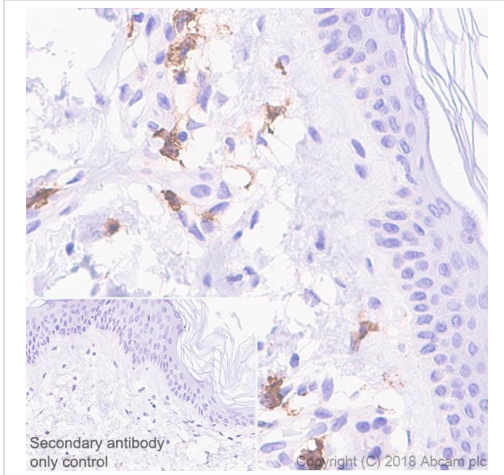
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab245207 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.

Target

Cellular localization DC-SIGN: Secreted and Cell membrane. DC-SIGNR: Secreted and Cell membrane.

Images



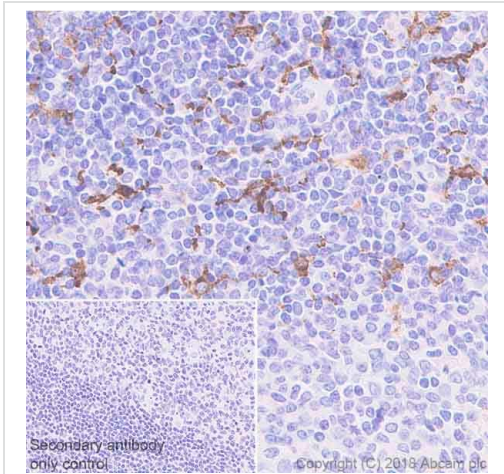
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DC-SIGN + DC-SIGNR antibody [EPR22395-72] - BSA and Azide free (ab245207)

Immunohistochemical analysis of paraffin-embedded human skin tissue labeling DC-SIGN + DC-SIGNR with **ab245115** at 1/1000 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP) secondary antibody. Cytoplasmic staining on dendritic cell-like cells of human skin (PMID: 11859097; PMID: 11859097) is observed. Counterstained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab245115**).

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



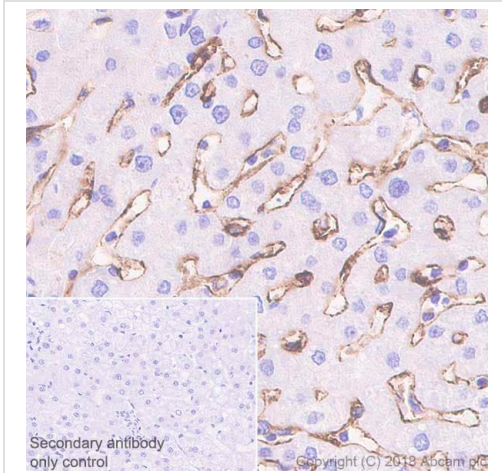
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DC-SIGN + DC-SIGNR antibody [EPR22395-72] - BSA and Azide free (ab245207)

Immunohistochemical analysis of paraffin-embedded human tonsil tissue labeling DC-SIGN + DC-SIGNR with **ab245115** at 1/100 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP) secondary antibody. Cytoplasmic staining on dendritic cell-like cells of human tonsil (PMID: 11859097) is observed. Counterstained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab245115**).

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



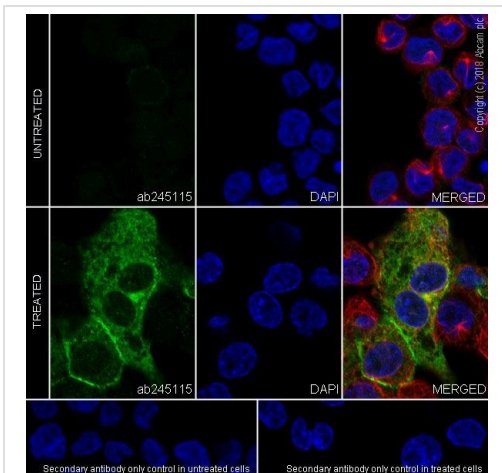
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DC-SIGN + DC-SIGNR antibody [EPR22395-72] - BSA and Azide free (ab245207)

Immunohistochemical analysis of paraffin-embedded human liver tissue labeling DC-SIGN + DC-SIGNR with **ab245115** at 1/100 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP) secondary antibody. Cytoplasmic staining on sinusoidal endothelial cells of human liver (PMID: 16816373) is observed. Counterstained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab245115**).

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



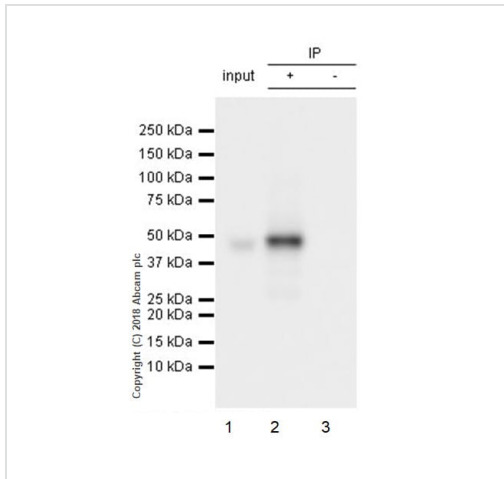
Immunocytochemistry/ Immunofluorescence - Anti-DC-SIGN + DC-SIGNR antibody [EPR22395-72] - BSA and Azide free (ab245207)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized THP-1 (human monocytic leukemia cell line) cells labeling DC-SIGN + DC-SIGNR with **ab245115** at 1/100 dilution, followed by a AlexaFluor[®]488 Goat anti-Rabbit secondary (**ab150077**) secondary antibody (green) at 1/1000 dilution.

Confocal image showing cytoplasmic and membranous staining in THP-1 cells treated with 10 ng/ml PMA for 18 hours, then serum starved for 8 hours, then 10 ng/ml PMA for 6 hours and add 1000 U IL4 for 2 hours, then add 10% serum for another 22 hours. DC-SIGN expression is induced by PMA plus IL4 in THP-1 (PMID: 15070901; PMID: 22675249). DC-SIGNR/CD299 expression is induced by PMA in THP-1 (PMID 30077333). Tubulin was stained using an Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor[®] 594) (**ab195889**)(red) at 1/200 dilution. The nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is AlexaFluor[®]488 Goat anti-Rabbit secondary (**ab150077**) at 1/1000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab245115**).



Immunoprecipitation - Anti-DC-SIGN + DC-SIGNR antibody [EPR22395-72] - BSA and Azide free (ab245207)

DC-SIGN+DC-SIGNR was immunoprecipitated from 0.35 mg human tonsil tissue lysate using **ab245115** at 1/30 dilution. Western blot was performed on the immunoprecipitate using **ab245115** at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used for detection at 1/1000 dilution.

Lane 1: Human tonsil tissue lysate 10 µg (input).

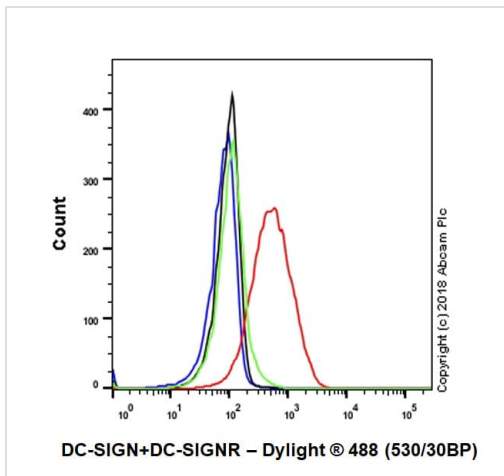
Lane 2: **ab245115** IP in Human tonsil tissue.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab245115** in Human tonsil lysate. (-).

Blocking and dilution buffer and concentration: 5% NFD/MBST.

Exposure time: 1 second.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab245115**).



Flow Cytometry - Anti-DC-SIGN + DC-SIGNR antibody [EPR22395-72] - BSA and Azide free (ab245207)

Flow cytometric analysis of 4% paraformaldehyde-fixed THP-1 (human monocytic leukemia cell line) cells treated with 10 ng/ml PMA for 18 hours, then serum starved for 8 hours, then 10 ng/ml PMA for 6 hours and add 1000 U IL4 for 2 hours, then add 10% serum for another 22 hours. DC-SIGN+DC-SIGNR was stained in treated (red) and untreated (green) cells using **ab245115** at 1/600 dilution as compared to a Rabbit monoclonal IgG (**ab172730**, black) isotype control and an unlabeled control (cells without incubation with primary antibody and secondary antibody / blue).

The secondary antibody was a Goat anti rabbit IgG (Dylight® 488, **ab98462**) used at 1/2000 dilution. Gated on viable cells. DC-SIGN expression is induced by PMA plus IL4 in THP-1 (PMID: 15070901; PMID: 22675249). DC-SIGNR/CD299 expression is induced by PMA in THP-1 (PMID 30077333).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab245115**).

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 + DC-SIGNR antibody [EPR22395-72]

- BSA and Azide free (ab245207)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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