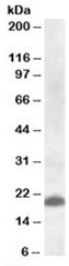
CLEC4C Antibody / Plasmacytoid Dendritic Cell Receptor Antibody (R35474)

Catalog No.	Formulation	Size
R35474-100UG	0.5 mg/ml in 1X TBS, pH7.3, with 0.5% BSA (US sourced) and 0.02% sodium azide	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Goat
Clonality	Polyclonal (goat origin)
Isotype	Goat Ig
Purity	Antigen affinity
Gene ID	170482
Applications	Western blot: 1-3ug/ml ELISA (peptide) LOD: 1:8000
Limitations	This CLEC4C Antibody / Plasmacytoid Dendritic Cell Receptor Antibody is available for research use only.



CLEC4C Antibody Human Spleen WB. Western blot analysis of human spleen lysate using CLEC4C Antibody detects a band at approximately 21 kDa, consistent with the predicted molecular weight of CLEC4C / CD303 (BDCA2). The observed signal supports detection of this plasmacytoid dendritic cell receptor in lymphoid tissue, aligning with its role as a surface marker of pDC populations involved in immune regulation.

Description

CLEC4C, also known as CD303 or BDCA2, is a C-type lectin receptor expressed on plasmacytoid dendritic cells, where it plays a critical role in regulating innate immune signaling. The CLEC4C Antibody / Plasmacytoid Dendritic Cell Receptor Antibody is designed to detect this receptor in studies focused on immune cell signaling and dendritic cell function. CLEC4C is a transmembrane protein that mediates ligand binding and downstream signaling events that influence

immune responses.

The CLEC4C antibody, also referred to as CD303 antibody and BDCA2 antibody in the literature, recognizes a receptor localized to the cell surface and intracellular compartments following receptor internalization. CLEC4C signaling is known to suppress type I interferon production, providing a regulatory mechanism that modulates antiviral and inflammatory responses. This function links receptor engagement with control of immune activation.

This CLEC4C Antibody / Plasmacytoid Dendritic Cell Receptor Antibody serves as a supporting page for CD303-targeted studies, providing complementary detection of the same protein under alternate naming conventions and experimental contexts such as western blot analysis. Detection of CLEC4C can support evaluation of protein expression levels and receptor processing in different biological systems.

Plasmacytoid dendritic cells are key mediators of immune defense, particularly in viral infection, where rapid interferon production is required. CLEC4C acts as a regulatory receptor that fine-tunes this response, preventing excessive immune activation. Dysregulation of CLEC4C signaling has been associated with autoimmune disease and cancer, where altered immune responses contribute to disease pathology.

This CLEC4C Antibody / Plasmacytoid Dendritic Cell Receptor Antibody is suitable for detecting CLEC4C expression in research applications focused on immune signaling, dendritic cell biology, and receptor-mediated regulation. It supports investigation of immune cell function and signaling pathways involving plasmacytoid dendritic cells.

This antibody supports investigation of immune signaling, dendritic cell biology, and CLEC4C receptor function. It can be compared with our CD303 Antibody (clone CLEC4C/3400) for consistent detection of plasmacytoid dendritic cells and CLEC4C expression in immune regulation studies.

Application Notes

Optimal dilution of the CLEC4C antibody should be determined by the researcher.

1. This CLEC4C antibody is specific for isoforms 1 and 2.

Immunogen

Amino acids QSWTKSQKNCSV were used as the immunogen for this CLEC4C antibody.

Storage

Aliquot and store the CLEC4C antibody at -20oC.

Alternate Names

CLEC4C antibody, CD303 antibody, BDCA2 antibody, C-type lectin domain family 4 member C antibody, CLEC4C receptor antibody

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