

Product datasheet

info@arigobio.com

ARG22464 anti-CLEC7A antibody [2A11] (Biotin)

Package: 50 μg Store at: 4°C

Summary

Product Description Biotin-conjugated Rat Monoclonal antibody [2A11] recognizes CLEC7A

This antibody recognizes murine beta-glucan receptor, also known as Dectin-1.Dectin-1 is predominantly expressed by cells of the monocyte/macrophage and neutrophil lineages, but also at lower levels by dendritic cells and a subpopulation of T cells. As a major leucocyte receptor for beta-glucan this molecule may have a key role in the immunomodulatory effects of beta-glucans and in the host response to fungal pathogens. Dectin-1 may stimulate reactive oxygen production in macropahges via the protein tyrosine kinase known as Syk. Rat anti Mouse Dectin-1 antibody, clone 2A11 inhibits the

binding of zymosan to macrophages via the beta-glucan receptor.

Tested Reactivity Ms

Tested Application FACS

Host Rat

Clonality Monoclonal

Clone 2A11
Isotype IgG2b
Target Name CLEC7A

Species Mouse

Immunogen Dectin-1 transfected NIH3T3 cells and recombinant soluble Dectin-1.

Conjugation Biotin

Alternate Names C-type lectin superfamily member 12; CD369; Dectin-1; Dendritic cell-associated C-type lectin 1;

CLECSF12; CANDF4; BGR; Beta-glucan receptor; C-type lectin domain family 7 member A; DC-associated

C-type lectin 1; DECTIN1

Application Instructions

Application table

Application Dilution

FACS 1:10 - 1:50

FACS: Use 10ul of the suggested working dilution to label 10^6 cells in 100ul

* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations

should be determined by the scientist.

Properties

Application Note

Form Liquid

Purification Purification with Protein G.

Buffer PBS, 0.09% Sodium azide and 1% BSA.

Preservative 0.09% Sodium azide

Stabilizer 1% BSA

Concentration 0.1 mg/ml

Storage instruction Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid

repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be

gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol Clec7a

Gene Full Name C-type lectin domain family 7, member a

Background This gene encodes a member of the C-type lectin/C-type lectin-like domain (CTL/CTLD) superfamily. The

encoded glycoprotein is a small type II membrane receptor with an extracellular C-type lectin-like domain fold and a cytoplasmic domain with an immunoreceptor tyrosine-based activation motif. It functions as a pattern-recognition receptor that recognizes a variety of beta-1,3-linked and beta-1,6-linked glucans from fungi and plants, and in this way plays a role in innate immune response. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. This gene is closely linked to other CTL/CTLD superfamily members on chromosome 12p13 in the natural

killer gene complex region. [provided by RefSeq, Jul 2008]

Function Lectin that functions as pattern receptor specific for beta-1,3-linked and beta-1,6-linked glucans, such

as cell wall constituents from pathogenic bacteria and fungi. Necessary for the TLR2-mediated inflammatory response and for TLR2-mediated activation of NF-kappa-B. Enhances cytokine production in macrophages and dendritic cells. Mediates production of reactive oxygen species in the cell.

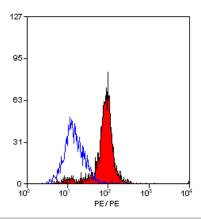
Mediates phagocytosis of C.albicans conidia. Binds T-cells in a way that does not involve their surface glycans and plays a role in T-cell activation. Stimulates T-cell proliferation (By similarity). [UniProt]

glycans and plays a role in T-cell activation. Stimulates T-cell proliferation (By similarity). [UniProt]

Calculated Mw 28 kDa

PTM Phosphorylated on tyrosine residues in response to glucan binding.

Images



ARG22464 anti-CLEC7A antibody [2A11] (Biotin) FACS image

Flow Cytometry: Mouse peripheral blood granulocytes stained with ARG22464 anti-CLEC7A antibody [2A11] (Biotin).