

Product datasheet

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ARG22465 anti-CLEC7A antibody [2A11] (low endotoxin)

Package: 250 μg Store at: -20°C

Summary

Product Description Azide free and low endotoxin 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 betaglucan 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, FuncSt, IHC-Fr, IP

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 Un-conjugated

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
	FuncSt	Assay-dependent
	IHC-Fr	Assay-dependent
	IP	Assay-dependent
	IHC-Fr: The epitope recognised by 2A11 is sensitive to H202 treatment, therefore quenching with 0.3% H202 should be performed after incubation with the primary antibody. The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. Arigo recommends the use of acetone fixation for frozen sections.	

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

Form Liquid

Purification Purification with Protein G.

Purification Note Low endotoxin

Buffer PBS

Concentration 1 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. 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

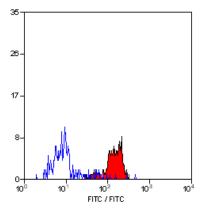
as cell wall constituents from pathogenic bacteria and fungi. Necessary for the TLR2-mediated inflammatory response and for TLR2-mediated activation of NF-kappa-B. Enhances cytokine production in macrophages and dendritic cells. Mediates production of reactive oxygen species in the cell. Mediates phagocytosis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

Calculated Mw 28 kDa

PTM Phosphorylated on tyrosine residues in response to glucan binding.

Images



ARG22465 anti-CLEC7A antibody [2A11] (low endotoxin) FACS image

Flow Cytometry: Mouse peripheral blood monocytes stained with ARG22465 anti-CLEC7A antibody [2A11] (low endotoxin).