

ARG22463 anti-CLEC7A antibody [2A11]

Package: 100 μg Store at: -20°C

Summary	
Product Description	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, IHC-Fr, IP
Host	Rat
Clonality	Monoclonal
Clone	2A11
Isotype	lgG2b
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
	IHC-Fr	Assay-dependent
	IP	Assay-dependent
Application Note	H202 should be performed after antibody is reported to be sensit the use of acetone fixation for fr FACS: Use 10ul of the suggested	working dilution to label 10 ⁶ cells in 100ul ended starting dilutions and the optimal dilutions or concentrations

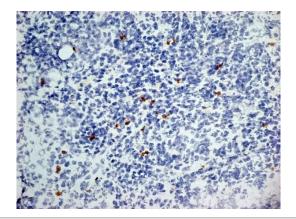
Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS and 0.09% Sodium azide
Preservative	0.09% Sodium azide
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

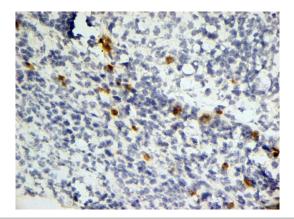
Gene Symbol	Clec7a
Gene Full Name	C-type lectin domain family 7, member a
Background	This gene encodes a member of the C-type lectin/C-type lectin-like domain (CTL/CTLD) superfamily. The encoded glycoprotein is a small type II membrane receptor with an extracellular C-type lectin-like domain fold and 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
РТМ	Phosphorylated on tyrosine residues in response to glucan binding.

Images



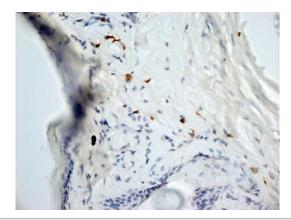
ARG22463 anti-CLEC7A antibody [2A11] IHC-Fr image

Immunohistochemistry: Mouse lymph node cryosection stained with ARG22463 anti-CLEC7A antibody [2A11]. (Low power).



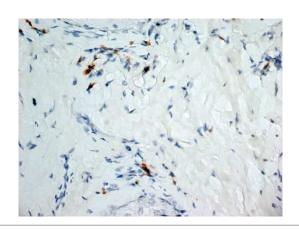


Immunohistochemistry: Mouse lymph node cryosection stained with ARG22463 anti-CLEC7A antibody [2A11]. (Medium power).



ARG22463 anti-CLEC7A antibody [2A11] IHC-Fr image

Immunohistochemistry: Mouse skin cryosection stained with ARG22463 anti-CLEC7A antibody [2A11]. (Low power).



ARG22463 anti-CLEC7A antibody [2A11] IHC-Fr image

Immunohistochemistry: Mouse lymph node cryosection stained with ARG22463 anti-CLEC7A antibody [2A11]. (High power).