

Rabbit anti-Mouse Dectin-1 Monoclonal Antibody | anti-CLEC7A antibody

Recombinant Anti-Dectin-1 Antibody, Rabbit Monoclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA257114	Rabbit	Mouse	Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

Dectin-1; Monoclonal Antibody; Recombinant Anti-Dectin-1 Antibody; Rabbit Monoclonal; Dectin-1/CLEC7A Antibody; Rabbit MAb; C-type lectin domain family 7; member A; Anti-beta-GR Antibody; Anti-BGR Antibody; Anti-Clecsf12 Antibody; anti-CLEC7A antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	010
Specificity	Mouse Dectin-1/CLEC7A
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-CLEC7A antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry)
Antibody Type	Recombinant Antibody
Immunogen	Recombinant Mouse Dectin-1/CLEC7A protein
Conjugation	Unconjugated
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Mouse Dectin-1/CLEC7A (rM Dectin-1/CLEC7A).
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



FCM/FACS (Flow Cytometry)

Flow cytometric analysis of Mouse Dectin-1(CLEC7A) expression on Raw264.7 cells. Cells were stained with purified anti-Mouse Dectin-1(CLEC7A), then a FITC-conjugated second step antibody. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.



IF (Immunofluorescence)

Immunofluorescence staining of mouse Dectin-1 in Raw264.7 cells. Cells were fixed with 4% PFA, blocked with 10% serum, and incubated with rabbit anti-mouse Dectin-1 monoclonal antibody (1:60) at 37 degree C 1 hour. Then cells were stained with the Alexa Fluor 488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue).

ADDITIONAL INFORMATION

Related Product Information for anti-CLEC7A antibody	Dectin-1 was recently identified as the most important receptor for beta-glucan. It is a type II transmembrane protein which binds beta-1, 3 and beta-1, 6 glucans, and is expressed on most cells of the innate immune system and has been implicated in phagocytosis as well as killing of fungi by macrophages, neutrophils and dendritic cells. Recognition of beta-glucan by dectin-1 triggers effective immune response, including phagocytosis and proinflammatory factor production, to eliminate infecting fungi, which especially benefits immunocompromised patients against opportunistic fungal infection. In addition, dectin-1 is involved in the adaptive immune response as well as autoimmune diseases and immune tolerance. Dectin-1 can recognize and respond to live fungal pathogens and is being increasingly appreciated as having a key role in the innate responses to these pathogens. In addition to its exogenous ligands, Dectin-1 can recognize an unidentified endogenous ligand on T cells and may act as a co-stimulatory molecule. Recent studies have highlighted the importance of Dectin-1 in anti-fungal immunity, in both mice and humans, and have suggested a possible involvement of this receptor in the control of mycobacterial infections.
Product Categories/Family for anti-CLEC7A antibody	ITIM/ITAM Immunoreceptors and Related Molecules
References	Herre J, et al. (2004) The role of Dectin-1 in antifungal immunity. Crit Rev Immunol. 24(3): 193-203. Brown GD. (2006) Dectin-1: a signalling non-TLR pattern-recognition receptor. 6(1): 33-43. Sun L, et al. (2007) The biological role of dectin-1 in immune response. Int Rev Immunol. 26(5-6): 349-64. Schorey JS, et al. (2008) The pattern recognition receptor Dectin-1: from fungi to mycobacteria. Curr Drug Targets. 9(2): 123-9. Reid DM, et al. (2009) Pattern recognition: recent insights from Dectin-1. Curr Opin Immunol. 21(1): 30-7.

NCBI AND UNIPROT INFORMATION

NCBI GI #	188035930
NCBI GeneID	56644
NCBI Accession #	NP_064392.2
NCBI GenBank Nucleotide #	NM_020008.2
Molecular Weight	27,420 Da
NCBI Official Full Name	C-type lectin domain family 7 member A
NCBI Official Synonym Full Names	C-type lectin domain family 7, member a
NCBI Official Symbol	Clec7a
NCBI Official Synonym Symbols	BGR; beta-GR; Clecsl2
NCBI Protein Information	C-type lectin domain family 7 member A; C-type (calcium dependent, carbohydrate recognition domain) lectin, superfamily member 12; C-type lectin superfamily member 12; DC-associated C-type lectin 1; beta-glucan receptor; dectin-1; dendritic cell-associate

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/dectin-1-antibody-clone-010-immunofluorescence-immunocytochemistry-flow-cytometry-elisa/257114>