

CLEC7A / Dectin 1 Antibody (Internal)
Rabbit Polyclonal Antibody
Catalog # ALS15621**Specification**

CLEC7A / Dectin 1 Antibody (Internal) - Product Information

Application	IHC, IF, WB
Primary Accession	Q9BXN2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	28kDa KDa

CLEC7A / Dectin 1 Antibody (Internal) - Additional Information**Gene ID** 64581**Other Names**

C-type lectin domain family 7 member A, Beta-glucan receptor, C-type lectin superfamily member 12, Dendritic cell-associated C-type lectin 1, DC-associated C-type lectin 1, Dectin-1, CLEC7A, BGR, CLECSF12, DECTIN1

Target/Specificity

Human CLEC7A / Dectin 1. Multiple isoforms of CLEC7A are known to exist. Immunogenic peptide is conserved among isoforms 1, 3, and 4 (Q9BXN2).

Reconstitution & Storage

Store at -20°C. Aliquot to avoid freeze/thaw cycles.

Precautions

CLEC7A / Dectin 1 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

CLEC7A / Dectin 1 Antibody (Internal) - Protein Information**Name** CLEC7A ([HGNC:14558](#))**Function**

Lectin that functions as a pattern recognizing receptor (PRR) specific for beta-1,3-linked and beta-1,6-linked glucans, which constitute cell wall constituents from pathogenic bacteria and fungi (PubMed:11567029, PubMed:12423684). Necessary for the TLR2-mediated inflammatory response and activation of NF-kappa-B: upon beta-glucan binding, recruits SYK via its ITAM motif and promotes a signaling cascade that activates some CARD domain-BCL10-MALT1 (CBM) signalosomes, leading to the activation of NF-kappa-B and MAP kinase p38 (MAPK11, MAPK12, MAPK13 and/or MAPK14) pathways which stimulate expression of genes encoding pro-inflammatory cytokines and chemokines (By similarity). Enhances cytokine production in macrophages and dendritic cells (By similarity).

Mediates production of reactive oxygen species in the cell (By similarity). Mediates phagocytosis of *C.albicans* conidia (PubMed:17230442). 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. Induces phosphorylation of SCIMP after binding beta-glucans (By similarity).

Cellular Location

Cell membrane; Single-pass type II membrane protein [Isoform 6]: Cytoplasm.

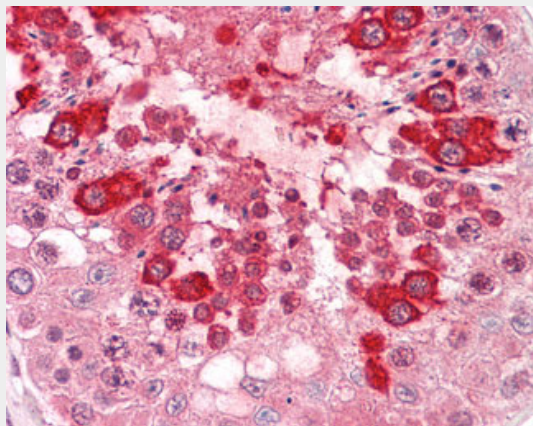
Tissue Location

Highly expressed in peripheral blood leukocytes and dendritic cells. Detected in spleen, bone marrow, lung, muscle, stomach and placenta.

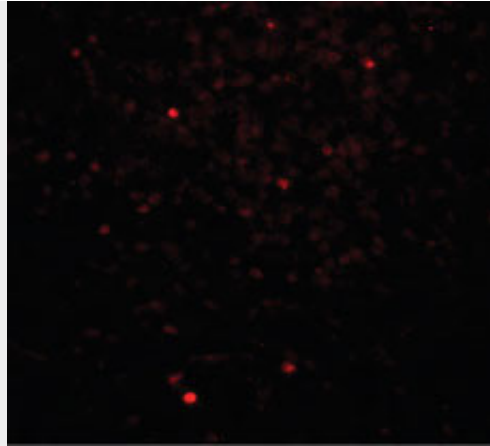
CLEC7A / Dectin 1 Antibody (Internal) - Protocols

Provided below are standard protocols that you may find useful for product applications.

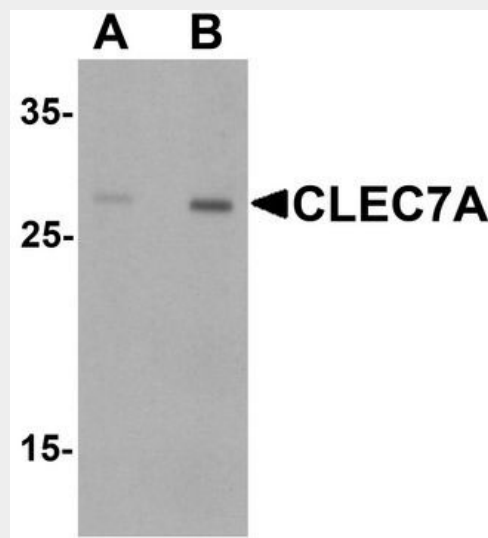
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CLEC7A / Dectin 1 Antibody (Internal) - Images

Anti-CLEC7A / Dectin 1 antibody IHC staining of human testis.



Immunofluorescence of CLEC7A in human spleen tissue with CLEC7A antibody at 20 ug/ml.



Western blot analysis of CLEC7A in rat spleen tissue lysate with CLEC7A antibody at (A) 1 and...

CLEC7A / Dectin 1 Antibody (Internal) - Background

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).

CLEC7A / Dectin 1 Antibody (Internal) - References

- Sobanov Y.,et al.Eur. J. Immunol. 31:3493-3503(2001).
- Yokota K.,et al.Gene 272:51-60(2001).
- Hernanz-Falcon P.,et al.Immunogenetics 53:288-295(2001).
- Willment J.A.,et al.J. Biol. Chem. 276:43818-43823(2001).
- Gruenebach F.,et al.Exp. Hematol. 30:1309-1315(2002).