

**Dectin-1 Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ABV10688****Specification**

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**Dectin-1 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q9BXN2</a>
Other Accession	<a href="#">EAW96155</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	27627

**Dectin-1 Antibody - Additional Information****Gene ID** 64581

Application & Usage	<b>Western blotting (0.5-4 µg/ml). However, the optimal conditions should be determined individually. The antibody recognizes 28 kDa of Dectin-1 from samples of human origins. A ~16 kDa monomeric form and a 43 kDa glycoprotein can also be detected. Reactivity to other species has not been tested.</b>
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**Other Names**

DC-associated C-type lectin 1, beta-glucan receptor, C-type lectin superfamily member 12, Dectin1, Dectin 1

**Target/Specificity**

Dectin-1

**Antibody Form**

Liquid

**Appearance**

Colorless liquid

**Formulation**

100 µg (0.5 mg/ml) affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, and 0.01% thimerosal.

**Handling**

The antibody solution should be gently mixed before use.

**Reconstitution & Storage**

-20 °C

## Background Descriptions

### Precautions

Dectin-1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Dectin-1 Antibody - 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](http://www.uniprot.org/citations/11567029)), PubMed: [12423684](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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.

## Dectin-1 Antibody - 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](#)

## Dectin-1 Antibody - Images

## Dectin-1 Antibody - Background

Dectin-1 also known as beta-glucan receptor is a small type II transmembrane receptor containing lectin-like carbohydrate recognition domain. Dectin-1 plays a role in beta-glucan dependant, nonopsonic recognition of zymosan by primary macrophage. Dectin-1 is expressed on macrophages

and neutrophils and on some dendritic cells subpopulation.