

### **Dectin-1 Antibody**

Rabbit Polyclonal Antibody Catalog # ABV10688

### **Specification**

### **Dectin-1 Antibody - Product Information**

Application
Primary Accession
Other Accession
Reactivity
Host
Clonality

Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Calculated MW 27627

### **Dectin-1 Antibody - Additional Information**

### **Gene ID 64581**

Application & Usage

Western blotting (0.5-4  $\mu$ g/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.

### **Other Names**

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

WB O9BXN2

EAW96155

Human, Mouse, Rat

## Target/Specificity

Dectin-1

# **Antibody Form**

Liquid

# **Appearance**

Colorless liquid

#### **Formulation**

 $100 \mu g$  (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:<a href="http://www.uniprot.org/citations/11567029" target="\_blank">11567029</a>, PubMed:<a href="http://www.uniprot.org/citations/12423684" target="\_blank">12423684</a>). 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:<a href="http://www.uniprot.org/citations/17230442" target="\_blank">17230442</a>). 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**

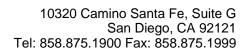
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

### **Dectin-1 Antibody - Images**

## **Dectin-1 Antibody - Background**

Dectin-1also 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 macropahge. Dectin-1 is expressed on macrophages





and neutrophils and on some dendritic cells subpopulation.