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Dectin-1 Blocking Peptide
Catalog # PBV10416b

Specification

Dectin-1 Blocking Peptide - Product Information

Primary Accession	Q9BXN2
Other Accession	EAW96155
Gene ID	64581
Calculated MW	27627

Dectin-1 Blocking Peptide - Additional Information

Gene ID 64581

Application & Usage	**The peptide is used for blocking the antibody activity of Dectin-1. It usually blocks the antibody activity completely in Western blot analysis by incubating the peptide with equal volume of antibody for 30-60 minutes at 37°C.**

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
Dectin-1

Formulation
50 µg (0.5 mg/ml) in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA and 0.02% thimerosal.

Reconstitution & Storage
-20 °C

Background Descriptions

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

Dectin-1 Blocking Peptide - 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.

Dectin-1 Blocking Peptide - 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 Blocking Peptide - Images