Overview

**Product name**
Anti-Dectin-1 antibody

**Description**
Rabbit polyclonal to Dectin-1

**Host species**
Rabbit

**Tested applications**
Suitable for: WB, IHC-P, ICC/IF

**Species reactivity**
Reacts with: Mouse, Rat, Human

**Immunogen**
Synthetic peptide within Human Dectin-1 aa 70-120 (extracellular). The exact sequence is proprietary.

Database link: Q9BXN2-1

**Positive control**
Rat spleen tissue lysate; Human spleen tissue

Properties

**Form**
Liquid

**Storage instructions**
Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C long term.

**Storage buffer**
Preservative: 0.02% Sodium azide
Constituent: 99% PBS

**Purity**
Immunogen affinity purified

**Clonality**
Polyclonal

**Isotype**
IgG

Applications

Our Abpromise guarantee covers the use of ab140039 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
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<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>WB</td>
<td></td>
<td>Use a concentration of 1 - 2 µg/ml. Predicted molecular weight: 28 kDa.</td>
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<tr>
<td>IHC-P</td>
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<td>Use a concentration of 5 µg/ml.</td>
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</table>
Function
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.

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

Involvement in disease
Defects in CLEC7A may be a cause of familial candidiasis type 4 (CANDF4) [MIM:613108]. It is a rare disorder with altered immune responses and impaired clearance of fungal infections, selective against Candida. It is characterized by persistent and/or recurrent infections of the skin, nails and mucous membranes caused by organisms of the genus Candida, mainly Candida albicans.

Sequence similarities
Contains 1 C-type lectin domain.

Post-translational modifications
Phosphorylated on tyrosine residues in response to glucan binding.

Cellular localization
Cytoplasm and Cell membrane.

Images
Immunofluorescence of Dectin-1 in Human spleen tissue with ab140039 at 20 µg/mL.

Immunocytochemistry/ Immunofluorescence - Anti-Dectin-1 antibody (ab140039)
Western blot - Anti-Dectin-1 antibody (ab140039)

Lane 1: Anti-Dectin-1 antibody (ab140039) at 1 µg/ml
Lane 2: Anti-Dectin-1 antibody (ab140039) at 2 µg/ml

All lanes: Rat spleen tissue lysate

Lysates/proteins at 15 µg per lane.

Predicted band size: 28 kDa

Immunohistochemical analysis of paraffin-embedded Human spleen tissue, labelling Dectin-1 using ab140039 at 5 µg/ml.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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