Product datasheet

**Anti-Dectin-1 antibody ab189968**

**Overview**

- **Product name**: Anti-Dectin-1 antibody
- **Description**: Rabbit Polyclonal to Dectin-1
- **Host species**: Rabbit
- **Tested applications**: Suitable for: WB, IHC-P
- **Species reactivity**: Reacts with: Rat, Human
- **Immunogen**: Synthetic peptide corresponding to Human Dectin-1 (internal sequence). The peptide corresponds to 17 amino acids. (NP_072092.2)
  Database link: Q9BXN-1,3,4
- **Positive control**: Human testis tissue, Human spleen tissue, Rat spleen lysate

**Properties**

- **Form**: Liquid
- **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 ab189968 in the following tested applications.

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

<table>
<thead>
<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: 23 kDa.</td>
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<tr>
<td>IHC-P</td>
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<td>Use a concentration of 2.5 - 20 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.
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-beta Glucan Receptor antibody (ab189968)

Immunohistochemistry analysis of Human spleen tissue labeling beta Glucan Receptor with ab189968 at 20 µg/ml.

Lane 1: Anti-Dectin-1 antibody (ab189968) at 1 µg/ml
Lane 2: Anti-Dectin-1 antibody (ab189968) at 2 µg/ml

All lanes: Rat spleen lysate

Predicted band size: 23 kDa

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

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