**Product Details**

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

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<tr>
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<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<tbody>
<tr>
<td>Flow Cytometry</td>
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<td>Neat - 1/10</td>
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Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species  Mouse

Product Form  Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized

Reconstitution  Reconstitute with 1 ml distilled water

Max Ex/Em

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<tr>
<th>Fluorophore</th>
<th>Excitation Max (nm)</th>
<th>Emission Max (nm)</th>
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<td>RPE 488nm laser</td>
<td>496</td>
<td>578</td>
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Preparation  Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

Buffer Solution  Phosphate buffered saline

Preservative Stabilisers  0.09% Sodium Azide
1% Bovine Serum Albumin
5% Sucrose

Immunogen  Dectin-1 transfected NIH3T3 cells and recombinant soluble Dectin-1.

External Database Links

**UniProt:**
[Q6QLQ4](http://www.uniprot.org/uniprot/Q6QLQ4)  Related reagents

**Entrez Gene:**
**Related reagents**

**Synonyms**
Bgr, Clecsf12, Dectin1

**Fusion Partners**
Spleen cells from immunised Fischer rats were fused with cells of the rat Y3 myeloma cell line

**Specificity**
**Rat anti Mouse Dectin-1 antibody, clone 2A11** recognizes murine beta-glucan receptor, also known as Dectin-1. Dectin-1 is predominantly expressed by cells of the monocyte/macrophage and neutrophil lineages, but also at lower levels by dendritic cells and a subpopulation of T cells.

As a major leucocyte receptor for beta-glucan this molecule may have a key role in the immunomodulatory effects of beta-glucans and in the host response to fungal pathogens. Dectin-1 may stimulate reactive oxygen production in macrophages via the protein tyrosine kinase known as Syk.

**Rat anti Mouse Dectin-1 antibody, clone 2A11** inhibits the binding of zymosan to macrophages via the beta-glucan receptor.

**Flow Cytometry**
Use 10ul of the suggested working dilution to label 10^6 cells in 100ul

**References**
15. Sindirilaru, A. et al. (2011) An unrestrained proinflammatory M1 macrophage population induced


Storage
Store at +4°C.

DO NOT FREEZE

This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life
18 months from date of reconstitution.

Health And Safety
Information
Material Safety Datasheet documentation #10075 available at:

Regulatory
For research purposes only