Datasheet: MCA2289BT

**Product Details**

**Description:** RAT ANTI MOUSE DECTIN-1: Biotin

**Specificity:** DECTIN-1

**Format:** Biotin

**Product Type:** Monoclonal Antibody

**Clone:** 2A11

**Isotype:** IgG2b

**Quantity:** 25 µg

**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).

<table>
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<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<tr>
<td>Flow Cytometry</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 Biotin - liquid

**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

**Approx. Protein Concentrations**

IgG concentration 0.1 mg/ml

**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:**

[56644](https://www.ncbi.nlm.nih.gov/gene/56644) Clec7a Related reagents

**Synonyms**

Bgr, Clecsf12, Dectin1

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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 10⁶ cells in 100ul

**References**

16. Anandasabapathy, N. et al. (2011) Flt3L controls the development of radiosensitive dendritic


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**Storage**

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

**Shelf Life**

18 months from date of despatch.

**Health And Safety Information**


**Regulatory**

For research purposes only

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**Related Products**

**Recommended Secondary Antibodies**

STREPTAVIDIN (STAR119...) **APC**

**Recommended Useful Reagents**

MOUSE SEROBLOCK FcR (BUF041A)**
### MOUSE SEROBLOCK FcR (BUF041B)

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Printed on 15 Jun 2017