### Datasheet: MCA2289BT

<table>
<thead>
<tr>
<th>Description:</th>
<th>RAT ANTI MOUSE DECTIN-1:Biotin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specificity:</td>
<td>DECTIN-1</td>
</tr>
<tr>
<td>Format:</td>
<td>Biotin</td>
</tr>
<tr>
<td>Product Type:</td>
<td>Monoclonal Antibody</td>
</tr>
<tr>
<td>Clone:</td>
<td>2A11</td>
</tr>
<tr>
<td>Isotype:</td>
<td>IgG2b</td>
</tr>
<tr>
<td>Quantity:</td>
<td>25 µg</td>
</tr>
</tbody>
</table>

### Product Details

**RRID**

AB_2081657

**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>
<thead>
<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
<td></td>
<td></td>
<td></td>
<td>Neat - 1/10</td>
</tr>
</tbody>
</table>

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: [O6QLQ4](http://www.uniprot.org/uniprot/O6QLQ4) 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

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


### 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
Material Safety Datasheet documentation #10041 available at:

### Regulatory
For research purposes only

### Related Products
**Recommended Useful Reagents**

MOUSE SEROBLOCK FcR (BUF041A)

MOUSE SEROBLOCK FcR (BUF041B)