## Datasheet: MCA2289FB

<table>
<thead>
<tr>
<th>Description:</th>
<th>RAT ANTI MOUSE DECTIN-1:FITC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specificity:</td>
<td>DECTIN-1</td>
</tr>
<tr>
<td>Format:</td>
<td>FITC</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>0.5 mg</td>
</tr>
</tbody>
</table>

### Product Details

| RRID | AB_566382 |

| 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).
| Flow Cytometry | Yes | No | Not Determined | Suggested Dilution 1/5 - 1/50 |

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.

<table>
<thead>
<tr>
<th>Target Species</th>
<th>Mouse</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Form</td>
<td>Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid</td>
</tr>
<tr>
<td>Max Ex/Em</td>
<td>Fluorophore</td>
</tr>
<tr>
<td></td>
<td>FITC</td>
</tr>
<tr>
<td>Preparation</td>
<td>Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant</td>
</tr>
<tr>
<td>Buffer Solution</td>
<td>Phosphate buffered saline</td>
</tr>
<tr>
<td>Preservative Stabilisers</td>
<td>0.09% Sodium Azide</td>
</tr>
<tr>
<td>Approx. Protein Concentrations</td>
<td>IgG concentration 0.5 mg/ml</td>
</tr>
<tr>
<td>Immunogen</td>
<td>Dectin-1 transfected NIH3T3 cells and recombinant soluble Dectin-1.</td>
</tr>
<tr>
<td>External Database Links</td>
<td>UniProt: <a href="http://www.uniprot.org/uniprot/Q6QLQ4">Q6QLQ4</a></td>
</tr>
</tbody>
</table>
**Entrez Gene:**
56644  Clec7a  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**

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 despatch

Health And Safety Information
Material Safety Datasheet documentation #10041 available at:

Regulatory
For research purposes only