Datasheet: MCA2289

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

**Specificity:** DECTIN-1

**Format:** Purified

**Product Type:** Monoclonal Antibody

**Clone:** 2A11

**Isotype:** IgG2b

**Quantity:** 0.25 mg

### 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).

<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>1/10 - 1/50</td>
</tr>
<tr>
<td>Immunohistology - Frozen (1)</td>
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<td>-</td>
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<tr>
<td>Immunohistology - Paraffin</td>
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<tr>
<td>Immunohistology - Resin</td>
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<tr>
<td>ELISA</td>
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<tr>
<td>Immunoprecipitation</td>
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<tr>
<td>Western Blotting</td>
<td>-</td>
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</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.

(1) The epitope recognised by 2A11 is sensitive to H₂O₂ treatment, therefore quenching with 0.3% H₂O₂ should be performed after incubation with the primary antibody. The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. Bio-Rad recommends the use of acetone fixation for frozen sections.

**Target Species**

Mouse

**Product Form**

Purified IgG - 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

**Carrier Free**

Yes

**Approx. Protein Concentrations**

IgG concentration 1.0 mg/ml
Immunogen
Dectin-1 transfected NIH3T3 cells and recombinant soluble Dectin-1.

External Database

Links
UniProt:
Q6QLQ4
Related reagents

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. 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 #10040 available at:

Regulatory
For research purposes only

Related Products
### Recommended Secondary Antibodies

<table>
<thead>
<tr>
<th>Antibody Type</th>
<th>Name</th>
<th>Tag</th>
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</thead>
<tbody>
<tr>
<td>Rabbit Anti Rat IgG</td>
<td>STAR17...</td>
<td>FITC</td>
</tr>
<tr>
<td>Goat Anti Rat IgG</td>
<td>STAR69...</td>
<td>FITC</td>
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<tr>
<td>Goat Anti Rat IgG</td>
<td>STAR131...</td>
<td>Alk. Phos., Biotin</td>
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<td>Goat Anti Rat IgG</td>
<td>STAR73...</td>
<td>RPE</td>
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<tr>
<td>Rabbit Anti Rat IgG</td>
<td>STAR21...</td>
<td>HRP</td>
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<tr>
<td>Goat Anti Rat IgG</td>
<td>STAR72...</td>
<td>HRP</td>
</tr>
<tr>
<td>Rabbit Anti Rat IgG</td>
<td>STAR16...</td>
<td>DyLight®800</td>
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<tr>
<td>Goat Anti Rat IgG (MOUSE ADSORBED)</td>
<td>STAR71...</td>
<td>DyLight®649, DyLight®800</td>
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</tbody>
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