Datasheet: MCA2289T

Description: RAT ANTI MOUSE DECTIN-1
Specificity: DECTIN-1
Format: Purified
Product Type: Monoclonal Antibody
Clone: 2A11
Isotype: IgG2b
Quantity: 25 µg

RRID AB_1100479

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.

<table>
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<tr>
<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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<td>Immunohistology - Frozen (1)</td>
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<td>Immunohistology - Resin</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.

(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](http://www.uniprot.org/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

11. Coates, P.J. *et al.* (2008) Indirect macrophage responses to ionizing radiation: implications for...

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.

Guarantee
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**

- Rabbit Anti Rat IgG (STAR17...) **FITC**
- Goat Anti Rat IgG (STAR69...) **FITC**
- Goat Anti Rat IgG (STAR131...) **Alk. Phos., Biotin**
- Goat Anti Rat IgG (STAR73...) **RPE**
- Rabbit Anti Rat IgG (STAR21...) **HRP**
- Goat Anti Rat IgG (STAR72...) **HRP**
- Rabbit Anti Rat IgG (STAR16...) **DyLight®800**
- Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...) **DyLight®649, DyLight®800**

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