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

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>
<thead>
<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<tbody>
<tr>
<td>Flow Cytometry</td>
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<td>1/10 - 1/50</td>
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<td>Immunohistology - Frozen</td>
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<td>Immunohistology - Paraffin</td>
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<td>Immunohistology - Resin</td>
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<td>Immunoprecipitation</td>
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<td>Western Blotting</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

Approx. Protein Concentrations: IgG concentration 1.0 mg/ml
**Immunogen**
Dectin-1 transfected NIH3T3 cells and recombinant soluble Dectin-1.

**External Database Links**

<table>
<thead>
<tr>
<th>UniProt:</th>
<th>Related reagents</th>
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**Entrez Gene:**

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</table>

**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**


**Regulatory**

For research purposes only

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**Related Products**

**Recommended Secondary Antibodies**
Rabbit Anti Rat IgG (STAR16...)  DyLight®800
Goat Anti Rat IgG (STAR73...)  RPE
Rabbit Anti Rat IgG (STAR21...)  HRP
Rabbit Anti Rat IgG (STAR17...)  FITC
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)  DyLight®549, DyLight®649, DyLight®800
Rabbit Anti Rat IgG (STAR20...)  RPE
Goat Anti Rat IgG (STAR131...)  Alk. Phos., Biotin
Goat Anti Rat IgG (STAR72...)  HRP
Goat Anti Rat IgG (STAR69...)  FITC

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