Datasheet: MCA2289T
BATCH NUMBER 1804

Product Details

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

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>Applications</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<td>Flow Cytometry</td>
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<td>Immunohistology - Frozen (1)</td>
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<td>Immunohistology - Paraffin</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 H$_2$O$_2$ treatment, therefore quenching with 0.3% H$_2$O$_2$ 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
**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

**RRID**
- AB_1100479

**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**


macrophages and reduces the activity of the tumor-associated protease legumain. Bioactive Carbohydrates and Dietary Fibre. 6 (1): 15-23.


**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**

12 months from date of despatch

**Health And Safety Information**

Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA2289T

**Regulatory**

For research purposes only

**Related Products**

**Recommended Secondary Antibodies**
Rabbit Anti Rat IgG (STAR16...) | DyLight®800
Rabbit Anti Rat IgG (STAR17...) | FITC
Goat Anti Rat IgG (STAR72...) | HRP
Goat Anti Rat IgG (STAR69...) | FITC
Goat Anti Rat IgG (STAR73...) | RPE
Rabbit Anti Rat IgG (STAR21...) | HRP
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...) | DyLight®550, DyLight®650, DyLight®800
Goat Anti Rat IgG (STAR131...) | Alk. Phos., Biotin

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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