Datasheet: MCA2289B

Description: RAT ANTI MOUSE DECTIN-1:Biotin

Specificity: DECTIN-1

Format: Biotin

Product Type: Monoclonal Antibody

Clone: 2A11

Isotype: IgG2b

Quantity: 0.1 mg

RRID: AB_321141

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>
<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>Neat - 1/10</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.

Target Species: Mouse

Product Form: Purified IgG conjugated to Biotin - liquid

Preparation: Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

Buffer Solution: Phosphate buffered saline

Preservative Stabilisers

<table>
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<tr>
<th>Stabiliser</th>
<th>Quantity</th>
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<tr>
<td>Sodium Azide</td>
<td>0.09%</td>
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<tr>
<td>Bovine Serum Albumin</td>
<td>1%</td>
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Approx. Protein Concentrations: IgG concentration 0.1 mg/ml

Immunogen: Dectin-1 transfected NIH3T3 cells and recombinant soluble Dectin-1.

External Database Links

UniProt: Q6QLQ4

Entrez Gene: 56644 Clec7a
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
16. Anandasabapathy, N. et al. (2011) Flt3L controls the development of radiosensitive dendritic


Storage

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. 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