Datasheet: MCA4635EL

Description: RAT ANTI MOUSE CD4:Low Endotoxin

Specificity: CD4

Other names: L3T4 ANTIGEN, LY-4

Format: Low Endotoxin

Product Type: Monoclonal Antibody

Clone: GK1.5

Isotype: IgG2b

Quantity: 0.5 mg

Product Details

RRID: AB_1833754

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>
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<td></td>
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<td>1/25 - 1/200</td>
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<tr>
<td>Immunohistology - Frozen</td>
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<td>Immunohistology - Paraffin</td>
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<td>ELISA</td>
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<td>Immunoprecipitation</td>
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<td>Western Blotting</td>
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<td>Immunofluorescence</td>
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<tr>
<td>Functional Assays</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 - liquid

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

Buffer Solution: Phosphate buffered saline

Preservative Stabilisers: None present

Carrier Free: Yes

Endotoxin Level: <0.01EU/ug
Approx. Protein Concentrations

IgG concentration 1.0 mg/ml

Immunogen

Murine CD4.

External Database Links

UniProt: P06332 Related reagents

Entrez Gene:

12504 Cd4 Related reagents

Fusion Partners

Spleen cells from immunised Lewis rats were fused with cells of the SP2/0 myeloma cell line.

Specificity

Rat anti Mouse CD4 antibody, clone GK1.5 recognizes mouse CD4, a ~55 kDa protein also known as Ly-4 and L3T4. CD4 is a single chain transmembrane glycoprotein which belongs to the immunoglobulin superfamily, and is primarily expressed on T helper cells, peripheral blood monocytes and tissue macrophages. CD4 is also expressed on a subpopulation of regulatory T cells (CD4+ CD25+), which play a key role in the maintenance of self tolerance.

Rat anti Mouse CD4 antibody, clone GK1.5 has been reported to block CD4+ T-cell activation. It blocks class II MHC antigen-specific binding, thereby inhibiting functions such as class II MHC antigen-specific proliferation and the release of lymphokines. It may also be used for in vivo and in vitro cell depletion of CD4+ T-cells.

Flow Cytometry

Use 10ul of the suggested working dilution to label 1x10⁶ cells in 100ul.

References


Detects Myocardial Inflammatory Response in Autoimmune Myocarditis. *Circ Cardiovasc Imaging, 9*(8).

<table>
<thead>
<tr>
<th>Storage</th>
<th>Store at -20°C only. This product should be stored undiluted.</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</td>
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</tbody>
</table>

| Guarantee        | 18 months from date of despatch. |


| 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®800**