Datasheet: MCA771A647T

Description: RAT ANTI MOUSE Ly-6B.2 ALLOANTIGEN:Alexa Fluor® 647
Specificity: Ly-6B.2 ALLOANTIGEN
Format: ALEXA FLUOR® 647
Product Type: Monoclonal Antibody
Clone: 7/4
Isotype: IgG2a
Quantity: 25 TESTS/0.25ml

Product Details

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>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
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<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 Alexa Fluor® 647 - liquid

Max Ex/Em:

<table>
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<tr>
<th>Fluorophore</th>
<th>Excitation (nm)</th>
<th>Emission (nm)</th>
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<tbody>
<tr>
<td>Alexa Fluor®647</td>
<td>650</td>
<td>665</td>
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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
- 1% Bovine Serum Albumin

Approx. Protein Concentrations: IgG concentration 0.05 mg/ml

Immunogen: Cultured bone marrow cells

Fusion Partners: Spleen cells from AO rats were fused with cells from the Y3 Ag1.2.3 rat myeloma cell line.

Specificity: Rat anti Mouse Ly-6B.2 monoclonal antibody, clone 7/4 recognizes the Ly-6B.2 antigen. Ly-6B.2 is a ~25-30 kDa GPI-anchored, heavily glycosylated protein expressed on neutrophils,
inflammatory monocytes and some activated macrophages ([Rosas et al. 2010]). High levels of expression are seen in bone marrow, spleen, lung and lymph nodes. N-glycanase treatment of thioglycollate elicited peritoneal neutrophil lysates lowers the apparent molecular weight of Ly-6B.2 to ~15 kDa ([Rosas et al. 2010]).

In common with other Ly-6 antigens Ly-6B.2 demonstrates a polymorphic expression on inbred mouse strains ([Kimura et al. 1984]). Rat anti mouse Ly-6B.2, clone 7/4 recognizes the Ly-6B.2 antigen in 129J; AKR; C57BL/6; C57BL/10; C58; DBA/2; NZB; NZW; SJL; MFI; Swiss (PO) Strains whilst A2G; A/Sn; ASW; BALB/c; C3H/HEH; CBA.T6T6 are negative or demonstrate very weak reactivity ([Hirsch and Gordon 1982]).

Rat anti mouse Ly-6B.2 has been successfully used for the immunomagnetic depletion of neutrophils during the enrichment of primitive hematopoietic cells from bone marrow ([Bertoncello et al. 1991]) and the depletion of myeloid cells in vivo ([Rosas et al. 2010]).

**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. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life
18 months from date of despatch.
Acknowledgements
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