**Datasheet: MCA609A647**

**Description:** RAT ANTI MOUSE CD8 ALPHA: Alexa Fluor® 647

**Specificity:** CD8 ALPHA

**Other names:** LY-2

**Format:** ALEXA FLUOR® 647

**Product Type:** Monoclonal Antibody

**Clone:** KT15

**Isotype:** IgG2a

**Quantity:** 100 TESTS/1ml

### 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](http://www.bio-rad-antibodies.com/protocols).

<table>
<thead>
<tr>
<th>Applications</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>
<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 Max (nm)</th>
<th>Emission Max (nm)</th>
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</thead>
<tbody>
<tr>
<td>Alexa Fluor®647</td>
<td>650</td>
<td>665</td>
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</table>

#### Preparation

Purified IgG prepared by affinity chromatography on Protein A 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

T cell clone, C6

#### External Database Links

- [UniProt: P01731](http://www.uniprot.org/uniprot/P01731)
- Related reagents
Entrez Gene:
12525 Cd8a Related reagents

Synonyms
Lyt2, Lyt-2

RRID
AB_324815

Fusion Partners
Spleen cells from immunized SD rats were fused with cells of the NS0 mouse myeloma cell line

Specificity
Rat anti mouse CD8α, clone KT15, recognizes the alpha chain of mouse CD8. CD8 is a heterodimeric protein composed of disulfide-linked CD8α and CD8β chains that is expressed primarily on cytotoxic T-cells. CD8 functions in the interaction with MHC Class I-bearing targets and plays a role in T-cell-mediated killing (Nakauchi, H. et al., 1985 & Nakauchi, H. et al., 1987).

Clone KT15 is reported to block T-cell-mediated cytotoxicity in in vitro assays (Zeis, M. et al., 2002).

Flow Cytometry
Use 10ul of the suggested working dilution to label 10^6 cells in 100ul.

The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR (BUF041A/B).

References

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.

Guarantee
18 months from date of despatch.

Acknowledgements
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Health And Safety Information

Regulatory
For research purposes only

Related Products
Recommended Negative Controls
RAT IgG2a NEGATIVE CONTROL: Alexa Fluor® 647 (MCA1212A647)

Recommended Useful Reagents
MOUSE SEROBLOCK FcR (BUF041A)
MOUSE SEROBLOCK FcR (BUF041B)

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