

## Datasheet: MCA609SBUV575

**BATCH NUMBER 64735415**

<b>Description:</b>	RAT ANTI MOUSE CD8 ALPHA:StarBright UltraViolet 575
<b>Specificity:</b>	CD8 ALPHA
<b>Other names:</b>	LY-2
<b>Format:</b>	StarBright UltraViolet 575
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	KT15
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	100 TESTS/0.5ml

### 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).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat

Where this product 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 product for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Mouse						
<b>Product Form</b>	Purified IgG conjugated to StarBright UltraViolet 575 - liquid						
<b>Max Ex/Em</b>	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>StarBright UltraViolet 575</td> <td>340</td> <td>569</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	StarBright UltraViolet 575	340	569
Fluorophore	Excitation Max (nm)	Emission Max (nm)					
StarBright UltraViolet 575	340	569					
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant						
<b>Buffer Solution</b>	Phosphate buffered saline						
<b>Preservative</b>	0.09% Sodium Azide (NaN <sub>3</sub> )						
<b>Stabilisers</b>	1% Bovine Serum Albumin 0.1% Pluronic F68						

0.1% PEG 3350  
0.05% Tween 20

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**Approx. Protein Concentrations** For information on the concentration of our StarBright Dye conjugated reagents please visit our [FAQ](#) page.

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**Immunogen** T cell clone, C6

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**External Database Links**

**UniProt:**

[P01731](#)    [Related reagents](#)

**Entrez Gene:**

[12525](#) Cd8a    [Related reagents](#)

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**Synonyms** Lyt2, Lyt-2

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

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**Specificity** **Rat anti Mouse CD8 $\alpha$ , clone KT15**, recognizes the [alpha chain of mouse CD8](#). CD8 is a heterodimeric protein composed of disulphide-linked CD8 $\alpha$  and [CD8 \$\beta\$](#)  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](#)).

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**Flow Cytometry** Use 5 $\mu$ l of the suggested working dilution to label 0.5x10<sup>6</sup> cells in 100 $\mu$ l. Best practices suggest a 5 min centrifugation at 6,000g prior to sample application.

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**References**

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<b>Storage</b>	This product is shipped at ambient temperature. Store at +4°C. DO NOT FREEZE. This product should be stored undiluted.
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign counterparts
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #20471 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA609SBUV575">https://www.bio-rad-antibodies.com/SDS/MCA609SBUV575</a>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

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

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