

## Datasheet: MCA609SBV440

|                      |                                                |
|----------------------|------------------------------------------------|
| <b>Description:</b>  | RAT ANTI MOUSE CD8 ALPHA:StarBright Violet 440 |
| <b>Specificity:</b>  | CD8 ALPHA                                      |
| <b>Other names:</b>  | LY-2                                           |
| <b>Format:</b>       | StarBright Violet 440                          |
| <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 Violet 440 - liquid                                               |                            |                          |
| <b>Max Ex/Em</b>                | <b>Fluorophore</b>                                                                                      | <b>Excitation Max (nm)</b> | <b>Emission Max (nm)</b> |
|                                 | StarBright Violet 440                                                                                   | 385                        | 438                      |
| <b>Preparation</b>              | Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant           |                            |                          |
| <b>Buffer Solution</b>          | Phosphate buffered saline                                                                               |                            |                          |
| <b>Preservative Stabilisers</b> | 0.09% Sodium Azide (NaN <sub>3</sub> )<br>1% Bovine Serum Albumin<br>0.1% Pluronic F68<br>0.1% PEG 3350 |                            |                          |

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 5ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.

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#### References

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|                         |                                                                                    |
|-------------------------|------------------------------------------------------------------------------------|
| <b>Storage</b>          | Store at +4°C. DO NOT FREEZE.<br>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

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**Health And Safety Information** Material Safety Datasheet documentation #20438 available at:  
20438: <https://www.bio-rad-antibodies.com/uploads/MSDS/20438.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Useful Reagents

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

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

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

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