

## Datasheet: MCA609SBB580

**BATCH NUMBER 10007045**

<b>Description:</b>	RAT ANTI MOUSE CD8 ALPHA:StarBright Blue 580
<b>Specificity:</b>	CD8 ALPHA
<b>Other names:</b>	LY-2
<b>Format:</b>	StarBright Blue 580
<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.

#### Target Species

Mouse

#### Product Form

Purified IgG conjugated to StarBright Blue 580 - liquid

#### Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
StarBright Blue 580	475	582

#### 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 (NaN<sub>3</sub>)  
1% Bovine Serum Albumin  
0.1% Pluronic F68  
0.1% PEG 3350

0.05% Tween 20

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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 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. 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/MCA609SBB580">https://www.bio-rad-antibodies.com/SDS/MCA609SBB580</a> 20471
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Useful Reagents

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

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

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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'M407376:221007'

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