

Datasheet: MCA1226SBB700

### **BATCH NUMBER 100008180**

Description:	MOUSE ANTI HUMAN CD8:StarBright Blue 700
Specificity:	CD8
Format:	StarBright Blue 700
Product Type:	Monoclonal Antibody
Clone:	LT8
Isotype:	IgG1
Quantity:	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 <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	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.

Reacts with: Marmoset, Chimpanzee, Cynomolgus monkey, Red-bellied Tamarin  N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.	Target Species	Human
	•	<b>N.B.</b> Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for

<b>Product Form</b>	Purified IgG conjugated to StarBright Blue 700 - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	StarBright Blue 700	473	703
Preparation	Purified IgG prepared by ion exchange chromatography from ascit		
Buffer Solution	Phosphate buffered	saline	

Pr	ese	rva	tive
Sta	abil	ise	rs

0.09% Sodium Azide (NaN<sub>3</sub>)1% Bovine Serum Albumin

0.1% Pluronic F68 0.1% PEG 3350 0.05% Tween 20

#### Immunogen

Normal human peripheral blood lymphocytes.

### External Database Links

#### **UniProt:**

P01732 Related reagents
P10966 Related reagents

#### **Entrez Gene:**

925 CD8A Related reagents926 CD8B Related reagents

#### **Synonyms**

CD8B1, MAL

### **Fusion Partners**

Spleen cells from immunised BALB/c mice were fused with cells of the mouse X63.653 myeloma cell line.

### **Specificity**

**Mouse anti Human CD8 antibody, clone LT8** recognizes the human CD8 cell surface glycoprotein expressed by a subset of peripheral blood T cells which express cytotoxic/suppressor activity. It is also expressed weakly on NK cells.

The CD8 antigen is a co-receptor for MHC Class I in conjunction with the T cell receptor, and is important in the selection process of CD8+ MHC Class I restricted T cells.

#### Flow Cytometry

Use  $5\mu$ I of the suggested working dilution to label  $10^6$  cells in  $100\mu$ I. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.

### References

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- 4. Kap, Y.S. *et al.* (2009) A monoclonal antibody selection for immunohistochemical examination of lymphoid tissues from non-human primates. <u>J Histochem Cytochem. 57:</u> 1159-67.
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regions. Brain. 130: 2789-99.

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- 10. Hood SP *et al.* (2014) Changes in immune cell populations in the periphery and liver of GBV-B-infected and convalescent tamarins (*Saguinus labiatus*). <u>Virus Res. 179:</u> 93-101.
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- 13. Gross, C.C. *et al.* (2016) Impaired NK-mediated regulation of T-cell activity in multiple sclerosis is reconstituted by IL-2 receptor modulation. <u>Proc Natl Acad Sci U S A. 113 (21):</u> <u>E2973-82.</u>
- 14. Dunham, J. *et al.* (2016) Blockade of CD127 Exerts a Dichotomous Clinical Effect in Marmoset Experimental Autoimmune Encephalomyelitis. <u>J Neuroimmune Pharmacol. 11</u> (1): 73-83.
- 15. Bughani, U. *et al.* (2017) T cell activation and differentiation is modulated by a CD6 domain 1 antibody Itolizumab. <u>PLoS One. 12 (7): e0180088.</u>
- 16. Philippens, I.H. *et al.* (2017) Acceleration of Amyloidosis by Inflammation in the Amyloid-Beta Marmoset Monkey Model of Alzheimer's Disease. <u>J Alzheimers Dis. 55 (1):</u> 101-113.

Storage	Store at +4°C. DO NOT FREEZE.
	This product should be stored undiluted.
Guarantee	12 months from date of despatch
Acknowledgements	This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign counterparts
Health And Safety	Material Safety Datasheet documentation #20471 available at:
Information	https://www.bio-rad-antibodies.com/SDS/MCA1226SBB700
	20471
Regulatory	For research purposes only

### Related Products

# **Recommended Useful Reagents**

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

North & South Tel: +1 800 265 7376 America Fax: +1 919 878 3751 Worldwide

Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Europe

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Email: antibody sales uk@bio-rad.com

Email: antibody sales de@bio-rad.com

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

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