

Datasheet: MCA1226SBV440

### **BATCH NUMBER 100004899**

Description:	ption: MOUSE ANTI HUMAN CD8:StarBright Violet 440		
Specificity:	CD8		
Format:	StarBright Violet 440		
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 www.biorad-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	Human
Species Cross	Reacts
Reactivity	NB An

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.			
Product Form	Purified IgG conjugated to StarBright Violet 440 - liquid			
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)	
	StarBright Violet 440	385	438	
Preparation	Purified IgG prepare	Purified IgG prepared by ion exchange chromatography		
Buffer Solution	Phosphate buffered	saline		

P	re	se	rv	at	ive	•
S	ta	bil	lis	er	s	

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 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.

### 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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- 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> E2973-82.
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- 15. Bughani, U. *et al.* (2017) T cell activation and differentiation is modulated by a CD6 domain 1 antibody Itolizumab. PLoS One. 12 (7): e0180088.
- 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 Information	Material Safety Datasheet documentation #20471 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA1226SBV440">https://www.bio-rad-antibodies.com/SDS/MCA1226SBV440</a> 20471
Regulatory	For research purposes only

## Related Products

# **Recommended Useful Reagents**

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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

# Printed on 11 Jul 2024

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