

Datasheet: MCA1226SBV790

BATCH NUMBER 100008003

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| Description: | MOUSE ANTI HUMAN CD8:StarBright Violet 790 |
| Specificity: | CD8 |
| Format: | StarBright Violet 790 |
| 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.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

Human

Species Cross Reactivity

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 790 - liquid

Max Ex/Em

| Fluorophore | Excitation Max (nm) | Emission Max (nm) |
|-----------------------|---------------------|-------------------|
| StarBright Violet 790 | 402 | 782 |

Preparation

Purified IgG prepared by ion exchange chromatography from ascites

Buffer Solution

Phosphate buffered saline

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|--------------------------------|--|
| Preservative | 0.09% Sodium Azide (NaN ₃) |
| Stabilisers | 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 | <p>UniProt:</p> <p>P01732 Related reagents</p> <p>P10966 Related reagents</p> <p>Entrez Gene:</p> <p>925 CD8A Related reagents</p> <p>926 CD8B Related reagents</p> |
| 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 | <p>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.</p> <p>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.</p> |
| Flow Cytometry | Use 5µl of the suggested working dilution to label 10 ⁶ cells in 100µl. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application. |
| References | <ol style="list-style-type: none"> Zarkesh-Esfahani, H. <i>et al.</i> (2001) High-dose leptin activates human leukocytes via receptor expression on monocytes. J Immunol. 167 (8): 4593-9. Manninen, A. & Saksela, K. (2002) HIV-1 Nef interacts with inositol trisphosphate receptor to activate calcium signaling in T cells. J Exp Med. 195 (8): 1023-32. Parnes, J.R. (1989) Molecular biology and function of CD4 and CD8. Adv Immunol. 44: 265-311. Kap, Y.S. <i>et al.</i> (2009) A monoclonal antibody selection for immunohistochemical examination of lymphoid tissues from non-human primates. J Histochem Cytochem. 57: 1159-67. Hovden, A.O. <i>et al.</i> (2011) Maturation of monocyte derived dendritic cells with OK432 boosts IL-12p70 secretion and conveys strong T-cell responses. BMC Immunol. 12: 2. Nelson, M. <i>et al.</i> (2010) Characterization of lethal inhalational infection with <i>Francisella tularensis</i> in the common marmoset (<i>Callithrix jacchus</i>). J Med Microbiol. 59: 1107-13. Gibbings, D.J. <i>et al.</i> (2007) CD8 alpha is expressed by human monocytes and enhances Fc gamma R-dependent responses. BMC Immunol. 8: 12. Junker, A. <i>et al.</i> (2007) Multiple sclerosis: T-cell receptor expression in distinct brain |

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| 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: https://www.bio-rad-antibodies.com/SDS/MCA1226SBV790 20471 |
| Regulatory | For research purposes only |

Related Products

Recommended Useful Reagents

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[HUMAN SEROBLOCK \(BUF070B\)](#)

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