

Datasheet: MCA1940SBV790

Description:	MOUSE ANTI HUMAN CD19:StarBright Violet 790		
Specificity:	CD19		
Format:	StarBright Violet 790		
Product Type:	Monoclonal Antibody		
Clone:	LT19		
Isotype:	lgG1		
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.

Product Form	Purified IgG conjugate	ed to StarBright Violet	790 - liquid
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm
IIIVA EA/EIII	StarBright Violet 790	402	782
reparation	Purified IgG prepared	by affinity chromatogr	raphy on Protein A
•	supernatant	by anning ornamicogn	,
	•		
uffer Solution	supernatant	aline	
uffer Solution	supernatant Phosphate buffered sa	aline (NaN ₃)	
uffer Solution	Phosphate buffered so	aline (NaN ₃)	
Buffer Solution Preservative Stabilisers	Supernatant Phosphate buffered so 0.09% Sodium Azide 1% Bovine Serum Alb	aline (NaN ₃)	

Approx. Protein Concentrations

For information on the concentration of our StarBright Dye conjugated reagents please visit our FAQ page.

External Database Links

UniProt:

P15391 Related reagents

Entrez Gene:

930 CD19 Related reagents

Specificity

Mouse anti Human CD19 antibody, clone LT19 recognizes human CD19 also known as T-cell surface antigen Leu-12 or B-lymphocyte surface antigen B4. CD19 is a ~95 kDa type I single pass transmembrane glycoprotein expressed on follicular dendritic cells and B-cells during maturation but is lost on development into plasma cells (de Rie *et al.* 1989).

CD19 is the broadest lineage specific marker for B cells and functions as a B-cell co-receptor in conjunction with CD21 (<u>Bradbury et al. 1992</u>), CD9, CD81 and CD82 (<u>Horváth et al. 1998</u>). CD19 is implicated in the down-regulation of B cell growth and proliferation (Pezzutto et al. 1987).

Flow Cytometry

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

References

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- 3. McIntosh, K. *et al.* (2006) The immunogenicity of human adipose-derived cells: temporal changes *in vitro*. <u>Stem Cells. 24: 1246-53.</u>
- 4. Sengstake, S. *et al.* (2006) CD21 and CD62L shedding are both inducible via P2X7Rs. Int Immunol. 18 (7): 1171-8.
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- 6. Franz, B. *et al.* (2011) *Ex vivo* characterization and isolation of rare memory B cells with antigen tetramers. Blood. 118: 348-57.
- 7. Lacal, P.M. *et al.* (2013) Glucocorticoid-induced tumor necrosis factor receptor family-related ligand triggering upregulates vascular cell adhesion molecule-1 and intercellular adhesion molecule-1 and promotes leukocyte adhesion. <u>J Pharmacol Exp Ther. 347:</u> 164-72.
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- 13. Karlsen, M. *et al.* (2015) TLR-7 and -9 Stimulation of Peripheral Blood B Cells Indicate Altered TLR Signalling in Primary Sjögren's Syndrome Patients by Increased Secretion of Cytokines. Scand J Immunol. 82 (6): 523-31.
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- 15. Gu, Y. *et al.* (2019) Defining the structural basis for human alloantibody binding to human leukocyte antigen allele HLA-A*11:01. Nat Commun. 10 (1): 893.
- 16. Yang, C. *et al.* (2013) B cells promote tumor progression via STAT3 regulated-angiogenesis. <u>PLoS One. 8 (5): e64159.</u>
- 17. Rupall, T.S. *et al.* (2025) Cell sorting for common and rare immune population enrichment and single cell omics. protocols.io 04 Jul [Epub ahead of print].

Storage	This product is shipped at ambient temperature.
	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/MCA1940SBV790
Regulatory	For research purposes only

Related Products

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M440323:250523'

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