

Datasheet: MCA2254SBUV540

Description:	MOUSE ANTI HUMAN CD94:StarBright UltraViolet 540
Specificity:	CD94
Format:	StarBright UltraViolet 540
Product Type:	Monoclonal Antibody
Clone:	DX22
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 (1)	▪			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.

(1) Staining at lower temperatures generally requires longer incubation to reach antibody binding equilibrium, and this effect is more pronounced for StarBright Dyes due to their larger size. For optimum staining, Bio-Rad recommends incubating samples either overnight at 4°C or 1 hour at room temperature.

Target Species	Human		
Product Form	Purified IgG conjugated to StarBright UltraViolet 540 - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	StarBright UltraViolet 540	338	540
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 ₃)		

1% Bovine Serum Albumin
0.1% Pluronic F68
0.1% PEG 3350
0.05% Tween 20

Approx. Protein Concentrations	For information on the concentration of our StarBright Dye conjugated reagents please visit our FAQ page.
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Immunogen	Natural killer cell line.
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External Database Links	UniProt: Q13241 Related reagents Entrez Gene: 3824 KLRD1 Related reagents
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Synonyms	CD94
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Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the SP2/0 myeloma cell line.
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Specificity	Mouse anti Human CD94 antibody, clone DX22 recognizes human Natural killer cells antigen CD94, also known as KLRD1, Killer cell lectin-like receptor, subfamily D, member 1, CD94, KP43 and NK cell receptor. CD94 is a 179 amino acid single pass type II transmembrane glycoprotein with a predicted molecular mass of ~20.5 kDa. There are 3 isoforms of CD94 derived by alternative splicing.
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CD94 is expressed on natural killer (NK) cells and a subset of T lymphocytes.

CD94 is found to associate with NKG2 to form a heterodimer, involved in the inhibition of cell mediated cytotoxicity against cells bearing appropriate MHC class I allotypes.

Mouse anti Human CD94 antibody, clone DX22 is reported to inhibit the binding of CD94 to HLA-E ([Braud *et al.* 1998](#)) and HLA-G ([Söderström. *et al.* 1997](#)).

Flow Cytometry	Use 5µl of the suggested working dilution to label 0.5x10 ⁶ cells in 100µl. Best practices suggest a 5 min centrifugation at 6,000g prior to sample application.
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References	1. Söderström K <i>et al.</i> (1997) CD94/NKG2 is the predominant inhibitory receptor involved in recognition of HLA-G by decidual and peripheral blood NK cells. J Immunol. 159 (3): 1072-5. 2. Braud, V.M. <i>et al.</i> (1998) HLA-E binds to natural killer cell receptors CD94/NKG2A, B and C. Nature. 391 (6669): 795-9. 3. Tomasec, P. <i>et al.</i> (2000) Surface expression of HLA-E, an inhibitor of natural killer cells, enhanced by human cytomegalovirus gpUL40. Science. 287 (5455): 1031. 4. Hassold, N. <i>et al.</i> (2012) Enhancement of natural killer cell effector functions against selected lymphoma and leukemia cell lines by dasatinib. Int J Cancer. 131 (6): E916-27.
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5. Rongvaux, A. *et al.* (2014) Development and function of human innate immune cells in a humanized mouse model. [Nat Biotechnol. 32 \(4\): 364-72.](#)

Storage	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted.
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Guarantee	12 months from date of despatch
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Acknowledgements	This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign counterparts
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Health And Safety Information	Material Safety Datasheet documentation #20471 available at: https://www.bio-rad-antibodies.com/SDS/MCA2254SBUV540
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Regulatory	For research purposes only
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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
'M452112:260710'

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