

Datasheet: MCA2254

Description:	MOUSE ANTI HUMAN CD94
Specificity:	CD94
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	DX22
Isotype:	IgG1
Quantity:	0.2 mg

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	▪			1/50 - 1/100
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	

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
Product Form	Purified IgG - liquid
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)
Carrier Free	Yes

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Natural killer cell line.
External Database Links	<p>UniProt: Q13241 Related reagents</p> <p>Entrez Gene: 3824 KLRD1 Related reagents</p>
Synonyms	CD94
RRID	AB_321360
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the SP2/0 myeloma cell line.
Specificity	<p>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.</p> <p>CD94 is expressed on natural killer (NK) cells and a subset of T lymphocytes.</p> <p>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.</p> <p>Mouse anti Human CD94 antibody, clone DX22 is reported to inhibit the binding of CD94 to HLA-E (Braud <i>et al.</i> 1998) and HLA-G (Söderström. <i>et al.</i> 1997).</p>
Flow Cytometry	Use 10µl of the suggested working dilution to label 1 x 10 ⁶ cells in 100µl
References	<ol style="list-style-type: none"> 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. 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. 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. 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. Rongvaux, A. <i>et al.</i> (2014) Development and function of human innate immune cells in a humanized mouse model. Nat Biotechnol. 32 (4): 364-72.
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at

-20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA2254 10040
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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