

## Datasheet: MCA2254

**BATCH NUMBER 173353**

<b>Description:</b>	MOUSE ANTI HUMAN CD94
<b>Specificity:</b>	CD94
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	DX22
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% sodium azide (NaN <sub>3</sub> )
<b>Carrier Free</b>	Yes

<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Natural killer cell line.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q13241</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">3824</a>    KLRD1    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	CD94
<b>RRID</b>	AB_321360
<b>Fusion Partners</b>	Spleen cells from immunized BALB/c mice were fused with cells of the SP2/0 myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Human CD94 antibody, clone DX22</b> 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 (<a href="#">Braud <i>et al.</i> 1998</a>) and HLA-G (<a href="#">Söderström. <i>et al.</i> 1997</a>).</p>
<b>Flow Cytometry</b>	Use 10µl of the suggested working dilution to label 1 x 10 <sup>6</sup> cells in 100µl
<b>References</b>	<ol style="list-style-type: none"> <li>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. <a href="#">J Immunol. 159 (3): 1072-5.</a></li> <li>Braud, V.M. <i>et al.</i> (1998) HLA-E binds to natural killer cell receptors CD94/NKG2A, B and C. <a href="#">Nature. 391 (6669): 795-9.</a></li> <li>Tomasec, P. <i>et al.</i> (2000) Surface expression of HLA-E, an inhibitor of natural killer cells, enhanced by human cytomegalovirus gpUL40. <a href="#">Science. 287 (5455): 1031.</a></li> <li>Hassold, N. <i>et al.</i> (2012) Enhancement of natural killer cell effector functions against selected lymphoma and leukemia cell lines by dasatinib. <a href="#">Int J Cancer. 131 (6): E916-27.</a></li> <li>Rongvaux, A. <i>et al.</i> (2014) Development and function of human innate immune cells in a humanized mouse model. <a href="#">Nat Biotechnol. 32 (4): 364-72.</a></li> </ol>
<b>Storage</b>	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.

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

### Recommended Secondary Antibodies

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

### Recommended Negative Controls

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

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://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](http://bio-rad-antibodies.com/datasheets)

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