

## Datasheet: MCA1105G

**BATCH NUMBER 167505**

<b>Description:</b>	MOUSE ANTI HUMAN CD98
<b>Specificity:</b>	CD98
<b>Other names:</b>	4F2
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	44D7
<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 - 1/200
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting			▪	

Where this antibody 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 antibody 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>	HOON pre-B leukaemia cell line.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P08195</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">6520</a>    SLC3A2    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	MDU1
<b>RRID</b>	AB_324424
<b>Fusion Partners</b>	Spleen cells from immunized BALB/c mice were fused with cells of the SP2/0-Ag14 mouse myeloma cell line.
<b>Specificity</b>	<b>Mouse anti Human CD98 antibody, clone 44D7</b> reacts with the heavy chain of the CD98 molecule. The same epitope as recognized by clone 4F2. This antibody binds to all cell lines in culture and to activated T-cells.
<b>Flow Cytometry</b>	Use 10µl of the suggested working dilution to label 10 <sup>6</sup> cells in 100µl
<b>References</b>	<ol style="list-style-type: none"> <li>1. Månsson, A. <i>et al.</i> (2010) Leukocyte phenotype changes induced by specific immunotherapy in patients with birch allergy. <a href="#">J Investig Allergol Clin Immunol. 20 (6): 476-83.</a></li> <li>2. Millrud, C.R. <i>et al.</i> (2012) The activation pattern of blood leukocytes in head and neck squamous cell carcinoma is correlated to survival. <a href="#">PLoS One. 7 (12): e51120.</a></li> <li>3. Jaramillo, R. <i>et al.</i> (2013) Relation between objective measures of atopy and myocardial infarction in the United States. <a href="#">J Allergy Clin Immunol. 131 (2): 405-11.e1-11.</a></li> <li>4. Garrigues, H.J. <i>et al.</i> (2014) KSHV attachment and entry are dependent on αVβ3 integrin localized to specific cell surface microdomains and do not correlate with the presence of heparan sulfate. <a href="#">Virology. 464-465: 118-133.</a></li> </ol>
<b>Storage</b>	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA1105G">https://www.bio-rad-antibodies.com/SDS/MCA1105G</a>

**Regulatory**

For research purposes only

**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 \(MCA928\)](#)

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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://bio-rad-antibodies.com/datasheets)

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