

## Datasheet: MCA1105G

<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
<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.

**External Database  
Links**

**UniProt:**

[P08195](#)   [Related reagents](#)

**Entrez Gene:**

[6520](#)   SLC3A2   [Related reagents](#)

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**Synonyms**

MDU1

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**Fusion Partners**

Spleen cells from immunized BALB/c mice were fused with cells of the SP2/0-Ag14 mouse myeloma cell line.

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**Specificity**

**Mouse anti Human CD98 antibody, clone 44D7** 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.

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**Flow Cytometry**

Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul.

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**References**

1. Letarte, M. *et al.* (1986) Correlations between the 44D7 antigenic complex and the plasma membrane Na<sup>+</sup>-Ca<sup>2+</sup> exchanger. [Biochem Cell Biol. 64 \(11\): 1160-9.](#)

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**Storage**

Store at +4°C or at -20°C if preferred.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Shelf Life**

18 months from date of despatch.

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**Health And Safety  
Information**

Material Safety Datasheet documentation #10040 available at:  
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)   [RPE](#)  
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)  
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@549](#),  
[DyLight@649](#), [DyLight@680](#), [DyLight@800](#),  
[FITC](#), [HRP](#)  
Rabbit Anti Mouse IgG (STAR9...)   [FITC](#)  
Goat Anti Mouse IgG (STAR77...)   [HRP](#)  
Rabbit Anti Mouse IgG (STAR12...)   [RPE](#)  
Goat Anti Mouse IgG (Fc) (STAR120...)   [FITC](#), [HRP](#)  
Rabbit Anti Mouse IgG (STAR8...)   [DyLight@800](#)  
Goat Anti Mouse IgG (STAR70...)   [FITC](#)  
Rabbit Anti Mouse IgG (STAR13...)   [HRP](#)  
Human Anti Mouse IgG1 (HCA036...)   [HRP](#)

### Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto: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](mailto: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](mailto:antibody_sales_de@bio-rad.com)

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