

Datasheet: MCA1105G

Description:	MOUSE ANTI HUMAN CD98
Specificity:	CD98
Other names:	4F2
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	44D7
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 - 1/200
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.

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	HOON pre-B leukaemia cell line.
External Database Links	<p>UniProt: P08195 Related reagents</p> <p>Entrez Gene: 6520 SLC3A2 Related reagents</p>
Synonyms	MDU1
RRID	AB_324424
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the SP2/0-Ag14 mouse myeloma cell line.
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.
Flow Cytometry	Use 10µl of the suggested working dilution to label 10 ⁶ cells in 100µl
References	<ol style="list-style-type: none"> Letarte, M. <i>et al.</i> (1986) Correlations between the 44D7 antigenic complex and the plasma membrane Na⁺-Ca²⁺ exchanger. Biochem Cell Biol. 64 (11): 1160-9. Jaramillo, R. <i>et al.</i> (2013) Relation between objective measures of atopy and myocardial infarction in the United States. J Allergy Clin Immunol. 131 (2): 405-11.e1-11. Månsson, A. <i>et al.</i> (2010) Leukocyte phenotype changes induced by specific immunotherapy in patients with birch allergy. J Investig Allergol Clin Immunol. 20 (6): 476-83. 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. PLoS One. 7 (12): e51120. 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. Virology. 464-465: 118-133.
Storage	<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>
Guarantee	12 months from date of despatch

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

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...) [HRP](#)
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
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 (STAR13...) [HRP](#)
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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