

Datasheet: MCA2409 BATCH NUMBER 163602

Description: MOUSE ANTI HUMAN CD17	
Specificity:	CD178
Other names:	FAS LIGAND
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	14C2
Isotype:	lgG1
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)	•			1/25 - 1/50
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.

(1) Results maybe enhanced using membrane permeabilisation. Membrane permeabilization is required for this application. The use of Leucoperm (Product Code <u>BUF09</u>) is recommended for this purpose.

Target Species	Human	
Product Form	Purified IgG - liquid	
Preparation	Purified IgG prepared by affinity chromatography on Protein C supernatant	From tissue culture
Buffer Solution	Phosphate buffered saline	

Preservative	0.000/.0
Stabilisers	0.09% Sodium Azide
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
External Database Links	UniProt: P48023 Related reagents Entrez Gene: 356 FASLG Related reagents
Synonyms	APT1LG1, CD95L, FASL, TNFSF6
RRID	AB_566573
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the P3U1 myeloma cell line.
Specificity	Mouse anti Human CD178 antibody, clone 14C2 recognizes the human CD178, also known as Tumor necrosis factor ligand superfamily member 6, Fas ligand (FasL), Apoptosis antigen ligand or CD95 ligand. CD178 is a 281 amino acid, a ~40 kDa single pass type-II transmembrane glycoprotein bearing a single intracellular FasL domain and member of the tumor necrosis factor family. CD178 is expressed by activated T lymphocytes and NK cells (Leite-de-Moraes and Dy 1997). The protein may exist as either a membrane bound or a cleaved soluble form (Garcia et al. 2013). CD178 plays an important role in T cell mediated cytotoxicity (Jodo et al. 2005). Binding of CD178 to Fas (CD95) results in the induction of apoptosis (Ju et al. 1995). Mouse anti human CD178 antibody, clone 14C2 is reported to recognize a conformation
	dependent non-blocking epitope on CD178 (<u>Daburon et al. 2013</u>).
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul.
References	 Legembre, P. et al. (2005) Amplification of Fas-mediated apoptosis in type II cells via microdomain recruitment. Mol Cell Biol. 25 (15): 6811-20. Mesdaghi, M. et al. (2010) Natural killer cells in allergic rhinitis patients and nonatopic controls. Int Arch Allergy Immunol. 153 (3): 234-8. Li, R. et al. (2014) Human heat shock protein-specific cytotoxic T lymphocytes display potent antitumour immunity in multiple myeloma. Br J Haematol. 166 (5): 690-701. Ouwendijk, W.J. et al. (2014) Functional characterization of ocular-derived human alphaherpesvirus cross-reactive CD4 T cells. J Immunol. 192: 3730-9. Matzner, P. et al. (2013) Resilience of the immune system in healthy young students to

- 30-hour sleep deprivation with psychological stress. <u>Neuroimmunomodulation. 20:</u> 194-204.
- 6. Sullivan, E.M. *et al.* (2014) NK cell genotype and phenotype at diagnosis of acute lymphoblastic leukemia correlate with postinduction residual disease. <u>Clin Cancer Res. 20</u> (23): 5986-94.
- 7. Lindqvist CA *et al.* (2011) Both CD4+ FoxP3+ and CD4+ FoxP3- T cells from patients with B-cell malignancy express cytolytic markers and kill autologous leukaemic B cells *in vitro*. Immunology. 133 (3): 296-306.
- 8. Holmannova D *et al.* (2015) Inhibitory CD200R and proapoptotic CD95/CD95L molecules on innate immunity cells are modulated by cardiac surgery. <u>Perfusion. 30 (7):</u> 543-55.
- 9. Tomchuck, S.L. *et al.* (2015) Enhanced cytotoxic function of natural killer and CD3+CD56+ cells in cord blood after culture. <u>Biol Blood Marrow Transplant. 21 (1): 39-49.</u>
- 10. Pachnio, A. *et al.* (2016) Cytomegalovirus Infection Leads to Development of High Frequencies of Cytotoxic Virus-Specific CD4+ T Cells Targeted to Vascular Endothelium. PLoS Pathog. 12 (9): e1005832.
- 11. Fathalla, A.M. *et al.* (2020) Polymyxin-Induced Cell Death of Human Macrophage-Like THP-1 and Neutrophil-Like HL-60 Cells Associated with the Activation of Apoptotic Pathways. <u>Antimicrob Agents Chemother. 64 (9)Aug 20 [Epub ahead of print].</u>

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
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA2409 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)

Goat Anti Mouse IgG IgA IgM (STAR87...)

RPE

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,

<u>DyLight®650</u>, <u>DyLight®680</u>, <u>DyLight®800</u>,

FITC, HRP

Rabbit Anti Mouse IgG (STAR9...) FITC

Goat Anti Mouse IgG (STAR77...) HRP

Goat Anti Mouse IgG (Fc) (STAR120...) FITC, HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

 North & South
 Tel: +1 800 265 7376
 Worldwide
 Tel: +44 (0)1865 852 700
 Europe
 Tel: +49 (0) 89 8090 95 21

 America
 Fax: +1 919 878 3751
 Fax: +44 (0)1865 852 739
 Fax: +49 (0) 89 8090 95 50

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M404166:220820'

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