Datasheet: MCA2409PET

Description:	MOUSE ANTI HUMAN CD178:RPE
Specificity:	CD178
Other names:	FAS LIGAND
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	14C2
Isotype:	IgG1
Quantity:	25 TESTS/0.25ml

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)	▪			Neat

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. Bio-Rad recommends the use of Leucoperm™ (Product code BUF09) prior to staining.**

Target Species

Human

Product Form

Purified IgG conjugated to R. Phycoerythrin (RPE) - liquid

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
RPE 488nm laser	496	578

Preparation

Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant.

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide
1% Bovine Serum Albumin
5% Sucrose

External Database Links

UniProt:

P48023 Related reagents

Entrez Gene:

356 FASLG Related reagents

Synonyms	APT1LG1, CD95L, FASL, TNFSF6
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 (Daburon *et al.* 2013).
Flow Cytometry	Use 10ul of the suggested working dilution to label $1x10^6$ cells in 100ul.
References	1. Legembre, P. *et al.* (2005) Amplification of Fas-mediated apoptosis in type II cells via microdomain recruitment. Mol Cell Biol. 25 (15): 6811-20. 2. Mesdaghi, M. *et al.* (2010) Natural killer cells in allergic rhinitis patients and nonatopic controls. Int Arch Allergy Immunol. 153 (3): 234-8. 3. 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. 4. Ouwendijk, W.J. *et al.* (2014) Functional characterization of ocular-derived human alphaherpesvirus cross-reactive CD4 T cells. J Immunol. 192: 3730-9. 5. Matzner, P. *et al.* (2013) Resilience of the immune system in healthy young students to 30-hour sleep deprivation with psychological stress. Neuroimmunomodulation. 20: 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. Clin Cancer Res. 20 (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. Perfusion. 30 (7): 543-55. 9. 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.
Storage	Store at +4ºC. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	12 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10306 available at: 10306: https://www.bio-rad-antibodies.com/uploads/MSDS/10306.pdf
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:RPE (MCA928PE)

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A)
HUMAN SEROBLOCK (BUF070B)

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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