

Datasheet: MCA2473A647

Description:	MOUSE ANTI MOUSE CD28:Alexa Fluor® 647
Specificity:	CD28
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	E18
Isotype:	IgG2b
Quantity:	100 TESTS/1ml

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	■			Neat - 1/5

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	Mouse		
Product Form	Purified IgG conjugated to Alexa Fluor® 647 - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Alexa Fluor®647	650	665
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative Stabilisers	None present.		
Approx. Protein Concentrations	IgG concentration 0.05 mg/ml		
Immunogen	Alternate immunisation with A20 cells expressing mCD28 and recombinant mCD28Ig.		
External Database Links	UniProt: P31041 Related reagents		
	Entrez Gene:		

Fusion Partners	Spleen cells from immunised CD28-/-knockout mice were fused with cells of the X63Ag8.653 myeloma cell line.
Specificity	Mouse anti Mouse CD28 antibody, clone E18 recognizes murine CD28, a co-stimulatory cell surface molecule expressed by T cell subsets. Clone E18 has been shown to be able to stimulate murine T lymphocytes in combination with anti-mouse CD3.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	1. Dennehy, K.M. <i>et al.</i> (2006) Cutting edge: monovalency of CD28 maintains the antigen dependence of T cell costimulatory responses. J Immunol. 176 (10): 5725-9. 2. Beyersdorf, N. <i>et al.</i> (2008) Protection from graft-versus-host disease with a novel B7 binding site-specific mouse anti-mouse CD28 monoclonal antibody. Blood. 112 (10): 4328-36. 3. Gogishvili, T. <i>et al.</i> (2012) Interruption of CD28-mediated costimulation during allergen challenge protects mice from allergic airway disease. J Allergy Clin Immunol. 130 (6): 1394-403.e4. 4. Pletinckx, K. <i>et al.</i> (2015) Immature dendritic cells convert anergic nonregulatory T cells into Foxp3- IL-10+ regulatory T cells by engaging CD28 and CTLA-4. Eur J Immunol. 45 (2): 480-91.
Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	18 months from date of despatch.
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Health And Safety Information	Material Safety Datasheet documentation #10162 available at: 10162: https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf
Regulatory	For research purposes only

Related Products

Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

'M300323:170105'

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