

Datasheet: MCA1363

Description:	HAMSTER ANTI MOUSE CD28
Specificity:	CD28
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	37.51.1
Isotype:	IgG
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	■			NEAT
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	Mouse
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A
Buffer Solution	Borate buffered saline.
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 0.2 mg/ml
Immunogen	Mouse T-Lymphoma EL-4 cells.
External Database Links	UniProt: P31041 Related reagents

Entrez Gene:[12487](#) Cd28 [Related reagents](#)

Fusion Partners	Spleen cells from immunised Syrian Hamsters were fused with cells of the mouse P3XAg8.653 myeloma cell line.
Specificity	Hamster anti Mouse CD28 antibody, clone 37.51.1 recognizes murine CD28, a ~80kDa cell surface glycoprotein that is expressed by most thymocyte subsets and by peripheral T-cells. Studies show that CD28 expression on thymocytes and splenic T-cells can be upregulated upon activation. Murine CD28 acts as a co-stimulatory signal and may play an important role in regulating the immune response of T-cells. Hamster anti Mouse CD28 antibody, clone 37.51.1 has been reported to enhance cytokine production and T-cell proliferation in combination with TCR-mediated signals (Gross <i>et al.</i> 1992).
Flow Cytometry	Use 5ul of the suggested working dilution to label 10⁶ cells in 100ul. The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR BUF041A/BUF041B.
References	1. Kawasaki, H. <i>et al.</i> (1999) Increased c-Fos/activator protein-1 confers resistance against anergy induction on antigen-specific T cell. Int Immunol. 11 (12): 1873-80. 2. Gross, J.A. <i>et al.</i> (1992) Identification and distribution of the costimulatory receptor CD28 in the mouse. J Immunol. 149 (2): 380-8.
Storage	Store at +4°C or at -20°C if preferred. This product should be stored undiluted. 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.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10077 available at: 10077: https://www.bio-rad-antibodies.com/uploads/MSDS/10077.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Hamster IgG (STAR104...) [DyLight®549](#), [DyLight®649](#), [DyLight®800](#), [FITC](#)

Goat Anti Hamster IgG (STAR79...) [Biotin](#), [FITC](#), [HRP](#)

Recommended Negative Controls

[HAMSTER \(ARMENIAN\) IgG NEGATIVE CONTROL \(MCA2356\)](#)

'M283471:160304'

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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