

## Datasheet: MCA2473EL

<b>Description:</b>	MOUSE ANTI MOUSE CD28:Low Endotoxin
<b>Specificity:</b>	CD28
<b>Format:</b>	Low Endotoxin
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	E18
<b>Isotype:</b>	IgG2b
<b>Quantity:</b>	0.5 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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			1/50 - 1/100
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	
Functional Assays	▪			

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.

<b>Target Species</b>	Mouse
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	None present.
<b>Endotoxin Level</b>	< 0.01 EU/ug

<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Alternate immunization with A20 cells expressing mCD28 and recombinant mCD28Ig.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P31041</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">12487</a> Cd28    <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_618658
<b>Fusion Partners</b>	Spleen cells from immunized CD28 <sup>-/-</sup> knockout mice were fused with cells of the X63Ag8.653 myeloma cell line.
<b>Specificity</b>	<b>Mouse anti Mouse CD28 antibody, clone E18</b> 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.
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Dennehy, K.M. <i>et al.</i> (2006) Cutting edge: monovalency of CD28 maintains the antigen dependence of T cell costimulatory responses. <a href="#">J Immunol. 176 (10): 5725-9.</a></li> <li>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. <a href="#">Blood. 112 (10): 4328-36.</a></li> <li>3. Gogishvili, T. <i>et al.</i> (2012) Interruption of CD28-mediated costimulation during allergen challenge protects mice from allergic airway disease. <a href="#">J Allergy Clin Immunol. 130 (6): 1394-403.e4.</a></li> <li>4. Pletinckx, K. <i>et al.</i> (2015) Immature dendritic cells convert anergic nonregulatory T cells into Foxp3<sup>+</sup> IL-10<sup>+</sup> regulatory T cells by engaging CD28 and CTLA-4. <a href="#">Eur J Immunol. 45 (2): 480-91.</a></li> </ol>
<b>Storage</b>	<p>Store at -20°C only.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10162 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA2473EL">https://www.bio-rad-antibodies.com/SDS/MCA2473EL</a> 10162
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®550</a> , <a href="#">DyLight®650</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>

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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://bio-rad-antibodies.com/datasheets)

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