

Datasheet: MCA1590T

Description:	MOUSE ANTI HUMAN CD40
Specificity:	CD40
Format:	Purified
<b>Product Type:</b>	Monoclonal Antibody
Clone:	LOB7/6
Isotype:	lgG2a
Quantity:	25 μg

## **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 <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry				20ug/ml
Immunohistology - Frozen	-			1ug/ml - 10ug/ml
Immunohistology - Paraffin (1)	•			1ug/ml - 10ug/ml
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)This product requires protein digestion pre-treatment of paraffin sections e.g. trypsin or pronase.

Target Species	Human
Species Cross Reactivity	Reacts with: Dog  N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A

Buffer Solution	Tris buffered saline	
Preservative Stabilisers	0.09% Sodium Azide	
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml	
Immunogen	CD40 Ig(Fc) fusion protein containing the EC region of human human IgG.	CD40 and Fc region of
External Database Links	UniProt: P25942 Related reagents  Entrez Gene: 958 CD40 Related reagents	
Synonyms	TNFRSF5	
RRID	AB_1102010	
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cel myeloma cell line.	ls of the mouse NS1
Specificity	Mouse anti Human CD40 antibody, clone LOB7/6 recognize surface antigen, a 48kDa glycoprotein expressed by B lymphot monocytes.	
	CD40 is involved in the process of B cell selection in germinal cell-B cell interactions.	centres and is vital in T
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in	100ul.
Histology Positive Control Tissue	Human Tonsil	
References	<ol> <li>Quadbeck, B. et al. (2002) Maturation of thyroidal dendritic of Scand J Immunol. 55 (6): 612-20.</li> <li>Kirsch, B. M. et al. (2005) The active metabolite of leflunom with dendritic cell function. Arthritis Res. Ther. 7: R694-R703.</li> <li>Cheadle, E. et al. (2003) Mycobacterium bovis bacillus Calm dendritic cells potently activate autologous T cells via a B7 and mechanism. Immunology.108: 79-88.</li> <li>Carpenter, E.L. et al. (2009) Activation of human B cells by the CP-870,893 and augmentation with simultaneous toll-like reception.</li> <li>Garcia-Nieto, S. et al. (2010) Laminin and Fibronectin Treatmost Dendritic Cells with Superior Endocytic Capacity. PLoS ONE</li> </ol>	nette-Guerin-infected I interleukin-12-dependent the agonist CD40 antibody otor 9 stimulation. J Transl

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- 7. Vlachoyiannopoulos, P.G. *et al.* (2004) Anti-CD40 antibodies in antiphospholipid syndrome and systemic lupus erythematosus. <u>Thromb Haemost. 92: 1303-11.</u>
- 8. Leigh, J.E. *et al.* (2006) Characterization of the immune status of CD8+ T cells in oral lesions of human immunodeficiency virus-infected persons with oropharyngeal Candidiasis. Clin Vaccine Immunol. 13: 678-83.
- 9. Newman, K.C. *et al.* (2006) Cross-talk with myeloid accessory cells regulates human natural killer cell interferon-gamma responses to malaria. <u>PLoS Pathog. 2: e118.</u>
- 10. Kuijf, M.L. *et al.* (2010) TLR4-mediated sensing of *Campylobacter jejuni* by dendritic cells is determined by sialylation. J Immunol. 185: 748-55.
- 11. Huizinga R *et al.* (2015) Innate Immunity to *Campylobacter jejuni* in Guillain-Barré Syndrome. Ann Neurol. 78 (3): 343-54.
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- 13. Brencicova, E. *et al.* (2017) Interleukin-10 and prostaglandin E2 have complementary but distinct suppressive effects on Toll-like receptor-mediated dendritic cell activation in ovarian carcinoma. PLoS One. 12 (4): e0175712.
- 14. Silk, K.M. *et al.* (2012) Rapamycin conditioning of dendritic cells differentiated from human ES cells promotes a tolerogenic phenotype. <u>J Biomed Biotechnol</u>. 2012: 172420.

#### Storage

Guarantee

Store at +4°C or at -20°C if preferred.

12 months from date of despatch

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.

Health And Safety	Material Sat
Information	10057: https

Material Safety Datasheet documentation #10057 available at:

10057: https://www.bio-rad-antibodies.com/uploads/MSDS/10057.pdf

**Regulatory** For research purposes only

## Related Products

# **Recommended Secondary Antibodies**

Goat Anti Mouse IgG (STAR77...) HRP
Rabbit Anti Mouse IgG (STAR12...) RPE

Rabbit Anti Mouse IgG (STAR8...) DyLight®800

Goat Anti Mouse IgG (STAR76...)

RPE
Goat Anti Mouse IgG (STAR70...)

FITC
Human Anti Mouse IgG2a (HCA037...)

HRP

Goat Anti Mouse IgG (H/L) (STAR117...) Alk. Phos., DyLight®488, DyLight®680,

DyLight®800, FITC, HRP

Rabbit Anti Mouse IgG (STAR9...) <u>FITC</u>
Rabbit Anti Mouse IgG (STAR13...) <u>HRP</u>

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

Goat Anti Mouse IgG IgA IgM (STAR87...) Alk. Phos., HRP

# **Recommended Negative Controls**

## MOUSE IgG2a NEGATIVE CONTROL (MCA929)

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 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

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