

Datasheet: MCA4636EL

Description:	HAMSTER ANTI MOUSE CD152:Low Endotoxin		
Specificity:	CD152		
Other names:	CTLA-4		
Format:	Low Endotoxin		
Product Type:	Monoclonal Antibody		
Clone:	1B8		
Isotype:	IgG		

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	•			1/10 - 1/100
Immunohistology - Frozen				
Immunohistology - Paraffin			•	
ELISA	•			
Immunoprecipitation	•			
Western Blotting	•			
Immunofluorescence				
Functional Assays				

Where this product 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 product 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 G from	tissue culture supernatant
Buffer Solution	Phosphate buffered saline	
Preservative Stabilisers	None present	
Carrier Free	Yes	
Endotoxin Level	<0.01EU/ug	
Approx. Protein	lgG concentration 1.0mg/ml	

Concentrations **Immunogen** Extracellular portion of mouse CD152 fused to a mouse IgG2a. **External Database UniProt:** Links P09793 Related reagents **Entrez Gene:** Related reagents 12477 Ctla4 **Synonyms** Cd152 **Fusion Partners** Lymph cells from immunised Armenian hamsters were fused with cells of the murine SP2/0 myeloma cell line. **Specificity** Hamster anti Mouse CD152 antibody, clone 1B8 recognizes mouse CD152, commonly known as CTLA-4 (cytotoxic T-lymphocyte protein 4), a structural homolog for CD28. CD152 binds the same ligands as CD28, namely CD80 (B7.1) and CD86 (B7.2), but with much higher affinity. However, while binding of CD28 enhances T cell function, binding of CD152 inhibits it. CD152 is not detected on naïve T-cells and is induced upon T-cell activation. In mice, lack of CD152 leads to massive lymphoproliferative disorder leading to tissue destruction and autoimmunity, suggesting a critical role for CD152 in limiting T-cell responses. CD152 has been shown to reduce IL-2 production after ligation and can inhibit T-cell expansion. This regulatory role and the high binding affinity of CD152 make it a potential therapy for autoimmune diseases such as rheumatoid arthritis. Hamster anti Mouse CD152 antibody, clone 1B8 may be used to enhance proliferation and pro-inflammatory cytokines of lymph node cells. It may also be used to enhance tumour immunity. Flow Cytometry Use 10ul of the suggested working dilution to label 1x10⁶ cells in 100ul. References 1. Walunas, T. L. et al. (1994) CTLA-4 can function as a negative regulator of T cell activation. Immunity 1: 405-413. 2. Verhagen, J. et al. (2013) CTLA-4 controls the thymic development of both conventional and regulatory T cells through modulation of the TCR repertoire. Proc Natl Acad Sci U S A. 110: E221-30. **Further Reading** 1. Karandikar, N.J. et al. (1996) CTLA-4: a negative regulator of autoimmune disease. J Exp Med. 184 (2): 783-8. Storage Store at -20°C only. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature

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.

Shelf Life

18 months from date of despatch.

Health And Safety Information

Material Safety Datasheet documentation #10162 available at: 10162: https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf

Related Products

Recommended Secondary Antibodies

Goat Anti Hamster IgG (STAR104...) <u>DyLight®549</u>, <u>DyLight®649</u>, <u>DyLight®800</u>,

FITC

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

Email: antibody_sales_us@bio-rad.com

Recommended Negative Controls

Fax: +1 919 878 3751

HAMSTER (ARMENIAN) IgG NEGATIVE CONTROL (MCA2356)

North & South Tel: +1 800 265 7376

America

Worldwide

Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Europe

Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50

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