

Datasheet: MCA2782B

Description:	RAT ANTI MOUSE Ly-6A/E:Biotin
Specificity:	Ly-6A/E
Other names:	Sca-1
Format:	Biotin
Product Type:	Monoclonal Antibody
Product Type: Clone:	Monoclonal Antibody D7

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	-			1/5 - 1/10
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 conjugated to Biotin - liquid
Preparation	Purified IgG prepared from ascites or tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.5mg/ml
Immunogen	IL-2-dependent mouse T cell line CTL-L.
External Database Links	UniProt:

P05533 Related reagents

Entrez Gene:

Health And Safety

Information

Regulatory

110454 Ly6a Related reagents

	110454 Ly6a Related reagents
Synonyms	Ly6
Specificity	Rat anti Mouse Ly-6A/E antibody, clone D7 recognises members of the lymphocyte activation protein-6 (Ly-6) multigene family. Specifically, it recognises Ly-6A.2 and Ly-6E.1. Ly-6A/E is also known as stem cell antigen-1 (Sca-1). It is an 18kDa mouse glycosyl phosphatidylinositol-anchored cell surface protein of the Ly-6 gene family. It is expressed on multipotent hematopoietic stem cells in bone marrow of mice with both the Ly-6.1 and Ly-6.2 allotypes. As such, it is the most common marker used for enriching adult hematopoietic stem cells. It has varied functions, it plays a role in bone formation, myoblast proliferation and differentiation and the activation and immunosuppressive function of T cells.
	Rat anti Mouse Ly-6A/E antibody, clone D7 has been reported to induce T cell activation. Removal of Sodium Azide is recommended prior to use in functional assays. Bio-Rad recommend the use of EQU003 for this purpose.
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ 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 (<u>BUF041A/B</u>).
References	 Holmes, C. & Stanford, W.L. (2007) Concise review: stem cell antigen-1: expression, function, and enigma. Stem Cells. 25 (6): 1339-47. Ortega, G. et al. (1986) Role of Ly-6 in lymphocyte activation. I. Characterization of a monoclonal antibody to a nonpolymorphic Ly-6 specificity. J Immunol. 137 (10): 3240-6. Malek, T.R. et al. (1986) Role of Ly-6 in lymphocyte activation. II. Induction of T cell activation by monoclonal anti-Ly-6 antibodies. J Exp Med. 164 (3): 709-22. Codias, E.K. et al. (1990) Down-regulation of IL-2 production by activation of T cells through Ly-6A/E. J Immunol. 145 (5): 1407-14. Snapper, C.M. et al. (1991) Cross-linkage of Ly-6A/E induces Ca2+ translocation in the absence of phosphatidylinositol turnover and mediates proliferation of normal murine B lymphocytes. J Immunol. 147 (4): 1171-9.
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.

Material Safety Datasheet documentation available at:

For research purposes only

Material Safety Datasheet Documentation #10041 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf

Related Products

Recommended Useful Reagents

MOUSE SEROBLOCK FcR (BUF041A)
MOUSE SEROBLOCK FcR (BUF041B)

North & South Tel: +1 800 265 7376

Worldwide

Tel: +44 (0)1865 852 700

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

Email: antibody_sales_us@bio-rad.com

Email: antibody_sales_uk@bio-rad.com

Europe

Email: antibody_sales_de@bio-rad.com

'M313821:180403'

Printed on 03 Apr 2018

© 2018 Bio-Rad Laboratories Inc | Legal | Imprint