

Datasheet: MCA473S

Description:	MOUSE ANTI RAT CD45.2
Specificity:	CD45.2
Other names:	LCA, RT7.2
Format:	S/N
Product Type:	Monoclonal Antibody
Clone:	HIS41
Isotype:	IgG1
Quantity:	2 ml

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	▪			
Immunohistology - Frozen (1)	▪			Neat - 1/10
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. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

(1)The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. Bio-Rad recommends the use of acetone fixation for frozen sections.

Target Species	Rat
Product Form	Tissue Culture Supernatant - liquid
Preparation	Tissue Culture Supernatant containing 0.2M Tris/HCl pH7.4 and 5-10% foetal calf serum
Preservative Stabilisers	0.09% Sodium Azide
Immunogen	PVG RT7.2 +ve rat thymocytes.

External Database Links	UniProt: P04157 Related reagents Entrez Gene: 24699 Ptpnc Related reagents
RRID	AB_321413
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse Sp 2/0 myeloma cell line.
Specificity	Mouse anti Rat CD45.2 antibody, clone HIS41 recognizes the rat RT7.2 alloantigen - it does not react with RT7.1. RT7.2 is expressed on the surface of all peripheral leucocytes, as well as on bone marrow cells of lymphoid and myeloid lineage. Immunoprecipitation studies demonstrate a band of ~180 kDa from thymocytes, and ~190-220 kDa from T and B cells. Sequential immunoprecipitation studies have revealed that HIS41 recognises a determinant of the leucocyte common antigen (LCA, CD45).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> Butcher, G.W. (1987) A list of monoclonal antibodies specific for alloantigens of the rat. J Immunogenet. 14 (2-3): 163-76. Kampinga, J. <i>et al.</i> (1990) Differences in turnover between thymic medullary dendritic cells and a subset of cortical macrophages. J Immunol. 145 (6): 1659-63. Havenith, C.E. <i>et al.</i> (1993) Migration of dendritic cells into the draining lymph nodes of the lung after intratracheal instillation. Am J Respir Cell Mol Biol. 9 (5): 484-8. Tschernig, T. <i>et al.</i> (1997) The lung as a source and a target organ for T- and B-lymphocytes. Am J Respir Cell Mol Biol. 17 (4): 414-21. Løvås, K. <i>et al.</i> (1996) Sequestration patterns of transfused rat neutrophilic granulocytes under normal and inflammatory conditions. Eur J Haematol. 56 (4): 221-9. Kampinga, J. <i>et al.</i> (1990) RT7-defined alloantigens in rats are part of the leucocyte common antigen family. Scand J Immunol. Jun;31(6):699-710.
Storage	Store at +4°C or at -20°C if preferred. 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.
Guarantee	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10055 available at: 10055: https://www.bio-rad-antibodies.com/uploads/MSDS/10055.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®680 , DyLight®800 , FITC , HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA1209\)](#)

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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