

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:

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 10⁶ cells in 100ul.

References

1. Butcher, G.W. (1987) A list of monoclonal antibodies specific for alloantigens of the rat. [J Immunogenet. 14 \(2-3\): 163-76.](#)
2. Kampinga, J. *et al.* (1990) Differences in turnover between thymic medullary dendritic cells and a subset of cortical macrophages. [J Immunol. 145 \(6\): 1659-63.](#)
3. Havenith, C.E. *et al.* (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.](#)
4. Tschernig, T. *et al.* (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.](#)
5. Løvås, K. *et al.* (1996) Sequestration patterns of transfused rat neutrophilic granulocytes under normal and inflammatory conditions. [Eur J Haematol. 56 \(4\): 221-9.](#)
6. Kampinga, J. *et al.* (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.

Shelf Life 18 months from date of despatch.

Health And Safety Information Material Safety Datasheet documentation available at:
Material Safety Datasheet Documentation #10055 available at:
<https://www.bio-rad-antibodies.com/uploads/MSDS/10055.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...) [RPE](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@549](#),
[DyLight@649](#), [DyLight@680](#), [DyLight@800](#),
[FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (STAR77...) [HRP](#)

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR8...) [DyLight®800](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Human Anti Mouse IgG1 (HCA036...) [HRP](#)

Recommended Negative Controls

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

North & South Tel: +1 800 265 7376

America 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

'M313844:180403'

Printed on 03 Apr 2018

© 2018 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)