

Datasheet: MCA1326

Description:	MOUSE ANTI RAT CD45R
Specificity:	CD45R
Format:	S/N
Product Type:	Monoclonal Antibody
Clone:	HIS24 (6B6)
Isotype:	IgG2b
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	▪			1 / 5
Immunohistology - Frozen (1)	▪			1 / 40
Immunohistology - Paraffin		▪		
Immunohistology - Resin		▪		
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)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	<0.1% Sodium Azide (NaN ₃)

Immunogen Single cell suspension of rat peyers patches.

External Database Links

UniProt:

[P04157](#) [Related reagents](#)

Entrez Gene:

[24699](#) Ptprc [Related reagents](#)

RRID AB_321421

Fusion Partners Spleen cells from immunized BALB/c mice were fused with cells of the mouse X63/Ag8 myeloma cell line.

Specificity **Mouse anti Rat CD45R antibody, clone HIS24** recognizes the high molecular weight form of the leucocyte common antigen (LCA) or CD45. CD45R is expressed on mature and precursor B lymphocytes, and to some extent on marginal zone B cells and a small subset of T cells.

Mouse anti Rat CD45R antibody, clone HIS24 is routinely used as a pan-B-cell marker for immunohistochemical studies on brain tissue ([Ali et al. 2005](#)), pancreas ([Homo-Delarche et al. 2006](#)), pulmonary tissue ([Foxwell et al. 2001](#)) and in flow cytometry on bone marrow cells ([Prakapas et al. 1993](#)).

Flow Cytometry Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.

References

1. Kroese, F.G. *et al.* (1987) B lymphocyte differentiation in the rat: production and characterization of monoclonal antibodies to B lineage-associated antigens. [Eur J Immunol. 1987 Jul;17\(7\):921-8.](#)
2. Ali, S. *et al.* (2005) Combined immunostimulation and conditional cytotoxic gene therapy provide long-term survival in a large glioma model. [Cancer Res. 65: 7194-204.](#)
3. Homo-Delarche, F. *et al.* (2006) Islet inflammation and fibrosis in a spontaneous model of type 2 diabetes, the GK rat. [Diabetes. 2006 Jun;55\(6\):1625-33.](#)
4. Ma, H. *et al.* (2007) Features of chronic allograft rejection on rat small intestine transplantation. [Pediatr Transplant. 11:165-72.](#)
5. Prakapas, Z. *et al.* (1993) Enrichment and characterization of thymus-repopulating cells in stroma-dependent cultures of rat bone marrow. [J Cell Sci. 104: 1039-48.](#)
6. Erben, R.G. *et al.* (1998) Ovariectomy augments B lymphopoiesis and generation of monocyte-macrophage precursors in rat bone marrow. [Am J Physiol. 274: E476-83.](#)
7. Horibe, E.K. *et al.* (2008) Rapamycin-conditioned, alloantigen-pulsed dendritic cells promote indefinite survival of vascularized skin allografts in association with T regulatory cell expansion. [Transpl Immunol. 18: 307-18.](#)
8. Ménoret, S. *et al.* (2013) Generation of Rag1-knockout immunodeficient rats and mice using engineered meganucleases. [FASEB J. 27: 703-11.](#)
9. Saiki, T. *et al.* (2001) In vivo roles of donor and host dendritic cells in allogeneic immune response: cluster formation with host proliferating T cells. [J Leukoc Biol. 69: 705-12.](#)
10. Foxwell, A.R. *et al.* (2001) CD8+ T cells have an essential role in pulmonary clearance

of nontypeable Haemophilus influenzae following mucosal immunization. [Infect Immun. 69: 2636-42.](#)

11. Shen, J. *et al.* (1998) Histological characterization and pharmacological control of chronic rejection in xenogeneic and allogeneic heart transplantation. [Transplantation. 1998 Sep 27;66\(6\):692-8.](#)

Storage This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee 12 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 (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 (Fc) (STAR120...) [FITC](#), [HRP](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),
[FITC](#), [HRP](#)

Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL \(MCA691\)](#)

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