

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	0.09% Sodium Azide
Immunogen	Single cell suspension of rat peyers patches.
External Database Links	UniProt: P04157 Related reagents Entrez Gene:

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 <i>et al.</i> 2005), pancreas (Homo-Delarche <i>et al.</i> 2006), pulmonary tissue (Foxwell <i>et al.</i> 2001) and in flow cytometry on bone marrow cells (Prakapas <i>et al.</i> 1993).
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.
References	1. Kroese, F.G. <i>et al.</i> (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. <i>et al.</i> (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. <i>et al.</i> (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. <i>et al.</i> (2007) Features of chronic allograft rejection on rat small intestine transplantation. Pediatr Transplant. 11:165-72. 5. Prakapas, Z. <i>et al.</i> (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. <i>et al.</i> (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. <i>et al.</i> (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. <i>et al.</i> (2013) Generation of Rag1-knockout immunodeficient rats and mice using engineered meganucleases. FASEB J. 27: 703-11. 9. Saiki, T. <i>et al.</i> (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. <i>et al.</i> (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. <i>et al.</i> (1998) Histological characterization and pharmacological control of chronic rejection in xenogeneic and allogeneic heart transplantation. Transplantation. 1998 Sep 27;66(6):692-8.
Storage	Store at +4°C or at -20°C if preferred. This product should be stored undiluted. Storage in frost-free freezers is not recommended. 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	Material Safety Datasheet documentation #10055 available at:

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , 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 IgG2b (HCA038...)	FITC , HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 , FITC , HRP

Recommended Negative Controls

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

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