

Datasheet: MCA2812C

Description:	MOUSE ANTI HUMAN HLA DR:RPE-Cy5
Specificity:	HLA DR
Format:	RPE-CY5
Product Type:	Monoclonal Antibody
Clone:	L243
Isotype:	IgG2a
Quantity:	100 TESTS/0.5ml

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	▪			Neat

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	Human		
Species Cross Reactivity	Reacts with: Chimpanzee, Baboon, Cynomolgus monkey, Rhesus monkey, African green monkey , Dog, Squirrel monkey, Pig-tailed macaque, Marmoset N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.		
Product Form	Purified IgG conjugated to RPE - Cy5 - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE-Cy5 488nm laser	496	667
Preparation	Purified IgG prepared by affinity chromatography		
Buffer Solution	Phosphate buffered saline		

Preservative	0.09% Sodium Azide
Stabilisers	0.2% Bovine Serum Albumin
External Database Links	UniProt: Q29769 Related reagents
RRID	AB_10895788
Specificity	Mouse anti Human HLA DR antibody, clone L243 recognizes the human HLA DR antigen, a member of the MHC class II family, which is expressed by B cells, activated T cells and monocytes. Mouse anti Human HLA DR antibody, clone L243 binds to a conformational epitope on HLA DRα and does not cross react with HLA DQ and HLA DP.
Flow Cytometry	Use 5ul of the suggested working dilution to label 10 ⁶ cells or 100ul whole blood
References	<ol style="list-style-type: none"> 1. Wang, D. <i>et al.</i> (2002) The influence of HLA-DR4 (0401) on the immune response to type II collagen and the development of collagen induced arthritis in mice. J Autoimmun. 18 (2): 95-103. 2. Chaturvedi, C.P. <i>et al.</i> (2018) Altered Expression of Hematopoiesis Regulatory Molecules in Lipopolysaccharide-Induced Bone Marrow Mesenchymal Stem Cells of Patients with Aplastic Anemia. Stem Cells Int. 2018: 6901761. 3. Kim, S.H. <i>et al.</i> (2019) Forkhead box O1 (FOXO1) controls the migratory response of Toll-like receptor (TLR3)-stimulated human mesenchymal stromal cells. J Biol Chem. 294 (21): 8424-37. 4. Temme, S. <i>et al.</i> (2019) Assembly, Intracellular Transport, and Release of MHC Class II Peptide Receptors. Methods Mol Biol. 1988: 297-314. 5. Ngugi, S. <i>et al.</i> (2022) The innate immune response in the marmoset during the acute pneumonic disease caused by <i>Burkholderia pseudomallei</i>. Infect Immun. : IAI0055021. 6. Nelson, M. <i>et al.</i> (2021) Comparison of experimental MERS-CoV infection acquired by three individual routes of infection in the common marmoset. J Virol. : JVI0173921.
Storage	<p>This product is shipped at ambient temperature.</p> <p>Store at +4°C.</p> <p>DO NOT FREEZE.</p> <p>This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Guarantee	Guaranteed for 12 months from the date of despatch or until the date of expiry, whichever comes first. Please see label for expiry date.
Acknowledgements	Cy® and CyDye® are registered trademarks of GE Healthcare
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA2812C

RegulatoryFor research purposes only

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