

Datasheet: MCA2812PE

Description:	MOUSE ANTI HUMAN HLA DR:RPE
Specificity:	HLA DR
Format:	RPE
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 product 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 product 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, Marmoset, 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 R. Phycoerythrin (RPE) - liquid

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578

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](#)

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 DR α and does not cross react with HLA DQ and HLA DP.

Flow Cytometry Use 5ul of the suggested working dilution to label 10⁶ cells or 100ul whole blood

References

1. Wang, D. *et al.* (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. *et al.* (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. *et al.* (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. *et al.* (2019) Assembly, Intracellular Transport, and Release of MHC Class II Peptide Receptors. [Methods Mol Biol. 1988: 297-314.](#)
5. Ngugi, S. *et al.* (2022) The innate immune response in the marmoset during the acute pneumonic disease caused by *Burkholderia pseudomallei*. [Infect Immun. : IAI0055021.](#)
6. Nelson, M. *et al.* (2021) Comparison of experimental MERS-CoV infection acquired by three individual routes of infection in the common marmoset. [J Virol. : JVI0173921.](#)

Storage Store at +4°C. DO NOT FREEZE. 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.

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.

Health And Safety Information Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2812PE>
10041

Regulatory For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL:RPE \(MCA929PE\)](#)

Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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