

## Datasheet: MCA2812F

<b>Description:</b>	MOUSE ANTI HUMAN HLA DR:FITC
<b>Specificity:</b>	HLA DR
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	L243
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	0.1 mg

## 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](http://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 Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

### Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
FITC	490	525

### Preparation

Purified IgG prepared by affinity chromatography

### Buffer Solution

Phosphate buffered saline

<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 0.5 mg/ml
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">Q29769</a> <a href="#">Related reagents</a>
<b>Specificity</b>	<b>Mouse anti Human HLA DR antibody, clone L243</b> 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 $\alpha$ and does not cross react with HLA DQ and HLA DP.
<b>Flow Cytometry</b>	Use 5ul of the suggested working dilution to label 10 <sup>6</sup> cells or 100ul whole blood
<b>References</b>	<ol style="list-style-type: none"> <li>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. <a href="#">J Autoimmun. 18 (2): 95-103.</a></li> <li>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. <a href="#">Stem Cells Int. 2018: 6901761.</a></li> <li>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. <a href="#">J Biol Chem. 294 (21): 8424-37.</a></li> <li>4. Temme, S. <i>et al.</i> (2019) Assembly, Intracellular Transport, and Release of MHC Class II Peptide Receptors. <a href="#">Methods Mol Biol. 1988: 297-314.</a></li> <li>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>. <a href="#">Infect Immun. : IAI0055021.</a></li> <li>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. <a href="#">J Virol. : JVI0173921.</a></li> </ol>
<b>Storage</b>	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.
<b>Guarantee</b>	Guaranteed for 12 months from the date of despatch or until the date of expiry, whichever comes first. Please see label for expiry date.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA2812F">https://www.bio-rad-antibodies.com/SDS/MCA2812F</a> 10040
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL:FITC \(MCA929F\)](#)

## Recommended Useful Reagents

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

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

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto: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](mailto: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](mailto:antibody_sales_de@bio-rad.com)

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

'M402101:220718'

**Printed on 21 Sep 2023**

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