

## Datasheet: MCA477SBV515

<b>Description:</b>	MOUSE ANTI HUMAN HLA DP DQ DR:StarBright Violet 515
<b>Specificity:</b>	HLA DP DQ DR
<b>Format:</b>	StarBright Violet 515
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	WR18
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	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](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.

<b>Target Species</b>	Human		
<b>Product Form</b>	Purified IgG conjugated to StarBright Violet 515 - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	StarBright Violet 515	401	516
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	0.09% Sodium Azide (NaN <sub>3</sub> )		
<b>Stabilisers</b>	1% Bovine Serum Albumin		
	0.1% Pluronic F68		
	0.1% PEG 3350		
<b>Immunogen</b>	Human HLA Class II (DP, DQ, DR).		

<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells from NS0 mouse myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Human HLA DP DQ DR antibody, clone WR18</b> reacts with a monomorphic determinant common to DP, DQ and DR beta chains, which are expressed by antigen presenting cells, B cells, monocytes and activated T lymphocytes.</p> <p>The major histocompatibility complex (MHC) is a cluster of genes that are important in the immune response to infections. In humans, this complex is referred to as the human leukocyte antigen (HLA) region. There are 3 major MHC class II proteins encoded by the HLA which are HLA DP, HLA DQ and HLA DR.</p>
<b>Flow Cytometry</b>	Use 5ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.
<b>References</b>	<ol style="list-style-type: none"> <li>Moore, K. <i>et al.</i> (1987) Use of the monoclonal antibody WR17, identifying the CD37 gp40-45 Kd antigen complex, in the diagnosis of B-lymphoid malignancy. <a href="#">J Pathol 152:13-21.</a></li> <li>Kissner, T.L. <i>et al.</i> (2011) Activation of MyD88 Signaling upon Staphylococcal Enterotoxin Binding to MHC Class II Molecules. <a href="#">PLoS One. 6: e15985.</a></li> <li>Chia, J.S. <i>et al.</i> (2001) Human T-cell responses to the glucosyltransferases of <i>Streptococcus mutans</i>. <a href="#">Clin Diagn Lab Immunol. 8: 441-5.</a></li> <li>Chang, Y.C. <i>et al.</i> (2008) Epigenetic control of MHC class II expression in tumor-associated macrophages by decoy receptor 3. <a href="#">Blood. 111: 5054-63.</a></li> <li>Litzinger, M.T. <i>et al.</i> (2009) Chronic lymphocytic leukemia (CLL) cells genetically modified to express B7-1, ICAM-1, and LFA-3 confer APC capacity to T cells from CLL patients. <a href="#">Cancer Immunol Immunother. 58: 955-65.</a></li> <li>Sadallah, S. <i>et al.</i> (2011) Microparticles (ectosomes) shed by stored human platelets downregulate macrophages and modify the development of dendritic cells. <a href="#">J Immunol. 186: 6543-52.</a></li> <li>Sabbah, S. <i>et al.</i> (2012) T-cell immunity to Kaposi sarcoma-associated herpesvirus: recognition of primary effusion lymphoma by LANA-specific CD4+ T cells. <a href="#">Blood. 119 (9): 2083-92.</a></li> <li>John, J. <i>et al.</i> (2010) Differential effects of Paclitaxel on dendritic cell function. <a href="#">BMC Immunol. 11:14.</a></li> <li>Palmer, K.J. <i>et al.</i> (2000) Interferon-alpha (IFN-alpha) stimulates anti-melanoma cytotoxic T lymphocyte (CTL) generation in mixed lymphocyte tumour cultures (MLTC). <a href="#">Clin Exp Immunol. 119: 412-8.</a></li> <li>Silk, K.M. <i>et al.</i> (2012) Rapamycin conditioning of dendritic cells differentiated from human ES cells promotes a tolerogenic phenotype. <a href="#">J Biomed Biotechnol. 2012: 172420.</a></li> <li>Elias, F. <i>et al.</i> (2003) Strong cytosine-guanosine-independent immunostimulation in humans and other primates by synthetic oligodeoxynucleotides with PyNTTTTGT motifs. <a href="#">J Immunol. 171: 3697-704.</a></li> <li>Silk, K.M. <i>et al.</i> (2012) Cross-presentation of tumour antigens by human induced pluripotent stem cell-derived CD141(+)XCR1+ dendritic cells. <a href="#">Gene Ther. 19 (10): 1035-40.</a></li> <li>Adamski, J. (2004) 17{beta}-Estradiol Inhibits Class II MHC Expression: Influence on Histone Modifications and CBP Recruitment to the Class II MHC Promoter <a href="#">Molecular</a></li> </ol>

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<b>Storage</b>	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted.
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<b>Guarantee</b>	12 months from date of despatch
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<b>Acknowledgements</b>	This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign counterparts
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #20438 available at: 20438: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/20438.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/20438.pdf</a>
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<b>Regulatory</b>	For research purposes only
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## Related Products

## 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)

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