

Datasheet: MCA379G

Description:	MOUSE ANTI HUMAN HLA DQ
Specificity:	HLA DQ
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	SPV-L3
Isotype:	IgG2a
Quantity:	0.2 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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting			▪	
Functional Assays (1)	▪			

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

(1) This product contains sodium azide, removal by dialysis is recommended prior to use in functional assays.

Target Species	Human
Species Cross Reactivity	<p>Reacts with: Pig</p> <p>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.</p>
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by ion exchange chromatography from tissue culture supernatant

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.1% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1 mg/ml
External Database Links	<p>UniProt:</p> <p>P01909 Related reagents</p> <p>P01906 Related reagents</p> <p>Entrez Gene:</p> <p>3117 HLA-DQA1 Related reagents</p> <p>3118 HLA-DQA2 Related reagents</p>
Synonyms	HLA-DXA
RRID	AB_322104
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the SP2/0 mouse myeloma cell line.
Specificity	<p>Mouse anti human HLA DQ antibody, clone SPV-L3 reacts with a monomorphic determinant of human class II HLA DQ molecules and strongly blocks cytotoxicity.</p> <p>Distribution studies suggest that it is directed against DQ rather than DR antigens. Mouse anti human HLA DQ antibody, clone SPV-L3 has been reported to inhibit the activity of cytotoxic T cell clones.</p>
References	<ol style="list-style-type: none"> Spits, H. <i>et al.</i> (1984) HLA-DC antigens can serve as recognition elements for human cytotoxic T lymphocytes. Eur J Immunol. 14 (4): 299-304. Bontrop, R. <i>et al.</i> (1986) Polymorphisms within the HLA-DR4 haplotypes. Various DQ subtypes detected with monoclonal antibodies Tissue Antigens 27: 22-31. Yang, P. <i>et al.</i> (2002) Immune cells in the porcine retina: distribution, characterization and morphological features. Invest Ophthalmol Vis Sci. 43 (5): 1488-92. Hake, S.B. <i>et al.</i> (2000) CIITA leucine-rich repeats control nuclear localization, in vivo recruitment to the major histocompatibility complex (MHC) class II enhanceosome, and MHC class II gene transactivation. Mol Cell Biol. 20: 7716-25. Long, H.M. <i>et al.</i> (2005) CD4+ T-cell responses to Epstein-Barr virus (EBV) latent-cycle antigens and the recognition of EBV-transformed lymphoblastoid cell lines. J Virol. 79: 4896-907. Peretti, M. <i>et al.</i> (2001) Expression of the three human major histocompatibility complex class II isotypes exhibits a differential dependence on the transcription factor RFXAP. Mol Cell Biol. 21: 5699-709. Krawczyk, M. <i>et al.</i> (2005) New functions of the major histocompatibility complex class II-specific transcription factor RFXANK revealed by a high-resolution mutagenesis study.

[Mol Cell Biol. 25: 8607-18.](#)

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10. Tagawa, T. *et al.* (2016) Epstein-Barr viral miRNAs inhibit antiviral CD4+ T cell responses targeting IL-12 and peptide processing. [J Exp Med. Sep 12. pii: jem.20160248. \[Epub ahead of print\]](#)

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12. Gudgeon, N.H. *et al.* (2005) Regression of Epstein-Barr virus-induced B-cell transformation in vitro involves virus-specific CD8+ T cells as the principal effectors and a novel CD4+ T-cell reactivity. [J Virol. 79 \(9\): 5477-88.](#)

13. Böckle BC *et al.* (2008) DC-sign+ CD163+ macrophages expressing hyaluronan receptor LYVE-1 are located within chorion villi of the placenta. [Placenta. 29 \(2\): 187-92.](#)

14. Onion, D. *et al.* (2007) The CD4+ T-cell response to adenovirus is focused against conserved residues within the hexon protein. [J Gen Virol. 88 \(Pt 9\): 2417-25.](#)

15. Chentoufi, A.A. *et al.* (2008) Asymptomatic human CD4+ cytotoxic T-cell epitopes identified from herpes simplex virus glycoprotein B. [J Virol. 82 \(23\): 11792-802.](#)

Further Reading	1. Piriou-Guzylack, L. (2008) Membrane markers of the immune cells in swine: an update. Vet Res. 39: 54.
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Storage	Store at +4°C or at -20°C if preferred.
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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.

Guarantee	18 months from date of despatch.
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Health And Safety Information	Material Safety Datasheet documentation #10303 available at: 10303: https://www.bio-rad-antibodies.com/uploads/MSDS/10303.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR76...)	RPE

Goat Anti Mouse IgG (STAR70...) [FITC](#)
Human Anti Mouse IgG2a (HCA037...) [HRP](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®680](#),
[DyLight®800](#), [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)

Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: 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	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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