

Datasheet: MCA1038PECY7

BATCH NUMBER 163854

Description:	RAT ANTI DOG CD4:RPE-Cy7
Specificity:	CD4
Format:	RPE-CY7
Product Type:	Monoclonal Antibody
Clone:	YKIX302.9
Isotype:	IgG2a
Quantity:	100 TESTS/1ml

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	Dog
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE)-Cy7 - lyophilized

Reconstitution	Reconstitute with 1ml distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution.
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Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE-Cy7 488nm laser	496	695

Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
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Buffer Solution	Phosphate buffered saline
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Preservative Stabilisers	0.09% sodium azide (NaN ₃)
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1% bovine serum albumin

5% sucrose

Immunogen Canine concanavilin A activated T cell blasts.

External Database Links

UniProt:

[P33705](#)

[Related reagents](#)

Entrez Gene:

[403931](#)

CD4

[Related reagents](#)

Fusion Partners Spleen cells from immunised DA rats were fused with cells of the Y3/Ag1.2.3 rat myeloma cell line.

Specificity **Rat anti Dog CD4 antibody, clone YKIX302.9**, is a monoclonal antibody specific for the canine CD4 cell surface antigen. Clone YKIX302.9 was clustered at the first Canine Leukocyte Antigen Workshop (CLAW) [[Cobbold et al. 1992](#)] along with clone [CA13.1E4](#).

Rat anti Dog CD4 antibody, clone YKIX302.9 partially depletes circulating T lymphocytes when administered *in vivo*, but alone is not sufficient to prolong allograft survival in a canine transplant model ([Watson et al. 1993](#)).

Uniquely amongst mammals, canine CD4 is expressed by neutrophils as well as by lymphocyte subsets ([Moore et al. 1992](#)).

Flow Cytometry Use 10µl of the suggested working dilution to label 1x10⁶ cells in 100µl

References

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Storage

Prior to reconstitution store at +4°C.

After reconstitution store at +4°C.

DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive

and should be protected from light.

Guarantee	12 months from date of despatch
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Acknowledgements	Cy and CyDye are trademarks of GE Healthcare.
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Health And Safety Information	Material Safety Datasheet documentation #20487 available at: https://www.bio-rad-antibodies.com/SDS/MCA1038PECY7 20487
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Regulatory	For research purposes only
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Related Products

Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL:RPE-Cy7 \(MCA6005PECY7\)](#)

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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