

Datasheet: MCA52R

Description:	MOUSE ANTI RAT CD5
Specificity:	CD5
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	OX-19
Isotype:	IgG1
Quantity:	0.25 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	■			1/25 - 1/100
Immunohistology - Frozen	■			
Immunohistology - Paraffin (1)	■			
ELISA			■	
Immunoprecipitation	■			
Western Blotting			■	

Where this antibody 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 antibody for use in their particular system using appropriate negative/positive controls.

(1) **The use of PLP fixation is recommended for optimal results.**

Target Species	Rat
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Rat thymocyte glycoproteins.

**External Database
Links**

UniProt:

[P51882](#)

[Related reagents](#)

Entrez Gene:

[54236](#)

Cd5

[Related reagents](#)

Fusion Partners

Spleen cells from an immunized BALB/c mouse were fused with cells from the NS1 mouse myeloma cell line.

Specificity

Mouse anti Rat CD5 antibody, clone OX-19 recognizes the rat CD5 cell surface antigen, a 69kD glycoprotein expressed by T cells, thymocytes and a subset of B cells.

Mouse anti Rat CD5 antibody, clone OX-19 has been reported as being suitable for use on periodate-lysine paraformaldehyde (PLP) fixed paraffin embedded tissue ([Whiteland *et al.* 1995](#)).

Mouse anti Rat CD5 antibody, clone OX-19 is routinely tested in flow cytometry on rat splenocytes.

Flow Cytometry

Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul.

References

1. Dallman, M.J. *et al.* (1982) The roles of host and donor cells in the rejection of skin allografts by T cell-deprived rats injected with syngeneic T cells. [Eur J Immunol. 12 \(6\): 511-8.](#)
2. Dallman, M.J. *et al.* (1984) MRC OX-19: a monoclonal antibody that labels rat T lymphocytes and augments in vitro proliferative responses. [Eur J Immunol. 14 \(3\): 260-7.](#)
3. Huitinga, I. *et al.* (1995) Macrophages in T cell line-mediated, demyelinating, and chronic relapsing experimental autoimmune encephalomyelitis in Lewis rats. [Clin Exp Immunol. 100 \(2\): 344-51.](#)
4. Whiteland, J.L. *et al.* (1995) Immunohistochemical detection of T-cell subsets and other leukocytes in paraffin-embedded rat and mouse tissues with monoclonal antibodies. [J Histochem Cytochem. 43 \(3\): 313-20.](#)
5. Song, E. *et al.* (2002) Early application of Met-RANTES ameliorates chronic allograft nephropathy. [Kidney Int. 61: 676-85.](#)
6. Moreno-Manzano, V. *et al.* (2003) Retinoids as a potential treatment for experimental puromycin-induced nephrosis [Br J Pharmacol. 139: 823-31.](#)
7. Shiraishi, H. *et al.* (2002) Antibody binding to fas ligand attenuates inflammatory cell infiltration and cytokine secretion, leading to reduction of myocardial infarct areas and reperfusion injury. [Lab Invest. 82: 1121-9.](#)
8. Rusai, K. *et al.* (2008) Administration of interleukin-1 receptor antagonist ameliorates renal ischemia-reperfusion injury. [Transpl Int. 21: 572-80.](#)
9. Antus, B. *et al.* (2001) Contribution of androgens to chronic allograft nephropathy is mediated by dihydrotestosterone [Kidney Int. 60: 1955-63.](#)
10. Antus, B. *et al.* (2005) Effects of progesterone and selective oestrogen receptor modulators on chronic allograft nephropathy in rats. [Nephrol Dial Transplant. 20: 329-35.](#)
11. Kikuchi, H. *et al.* (2000) Severe proteinuria, sustained for 6 months, induces tubular epithelial cell injury and cell infiltration in rats but not progressive interstitial fibrosis. [Nephrol Dial Transplant. 15: 799-810.](#)
12. Abrams, M.B. *et al.* (2009) Multipotent mesenchymal stromal cells attenuate chronic inflammation and injury-induced sensitivity to mechanical stimuli in experimental spinal cord injury. [Restor Neurol Neurosci. 27: 307-21.](#)
13. Robichon, R. *et al.* (2005) Pig xenografts to the immunocompetent rat brain: Survival rates using distinct neurotoxic lesions in the nigrostriatal pathway and two rat strains. [Exp Neurol. 194: 333-40.](#)
14. de Vries, H.E. *et al.* (2002) Signal-regulatory protein alpha-CD47 interactions are required for

the transmigration of monocytes across cerebral endothelium. [J Immunol. 168: 5832-9.](#)
15. Pamukcu, O. *et al.* (2016) Anti-inflammatory role of obestatin in autoimmune myocarditis. [Clin Exp Pharmacol Physiol. 43 \(1\): 47-55.](#)

Storage

Store at +4°C or at -20°C if preferred.

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.

Shelf Life

18 months from date of despatch.

Health And Safety Information

Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...) [RPE](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (STAR77...) [HRP](#)
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR8...) [DyLight®800](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Human Anti Mouse IgG1 (HCA036...) [HRP](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®549](#),
[DyLight®649](#), [DyLight®680](#), [DyLight®800](#),
[FITC](#), [HRP](#)

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA1209\)](#)

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

'M319186:180719'

Printed on 01 Aug 2018