

Datasheet: MCA494G

Description:	MOUSE ANTI RAT CD25
Specificity:	CD25
Other names:	IL-2R ALPHA CHAIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	NDS 61
Isotype:	IgG1
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			1/50 - 1/100
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
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 own system using appropriate negative/positive controls.

Target Species	Rat
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1 mg/ml
Immunogen	Rat interleukin-2 receptor.

**External Database
Links**

UniProt:

[P26897](#) [Related reagents](#)

Entrez Gene:

[25704](#) IL2ra [Related reagents](#)

Fusion Partners

Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.

Specificity

Mouse anti Rat CD25 antibody, clone NDS 61 recognizes the rat CD25 cell surface antigen, a ~55 kDa molecule that is the low affinity alpha chain of the IL-2 receptor. Mouse anti Rat CD25 antibody, clone NDS 61 recognizes a different epitope on CD25 to Mouse anti Rat CD25, clone OX-39 ([MCA273R](#)) .

Mouse anti Rat CD25 antibody, clone NDS 61 is reported to block IL-2 induced cell proliferation ([Tellides *et al.* 1989](#)).

Flow Cytometry

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

References

1. Tellides, G. *et al.* (1987) Functional blocking of the interleukin-2 receptor (IL-2R) may be important in the efficacy of IL-2R antibody therapy. [Transplant Proc. 19 \(5\): 4231-3.](#)
2. Tellides, G. *et al.* (1989) Mechanism of action of interleukin-2 receptor (IL-2R) monoclonal antibody (MAb) therapy: target cell depletion or inhibition of function? [Transplant Proc. 21 \(1 Pt 1\): 997-8.](#)
3. Dallman, M.J. *et al.* (1988) Cytotoxicity and IL 2 reactivity of cells from rejected or nonrejected allografts. [Transplant Proc. 20 \(2\): 226-8.](#)
4. Bjersing, J.L. *et al.* (2002) Loss of ileal IgA+ plasma cells and of CD4+ lymphocytes in ileal Peyer's patches of vitamin A deficient rats. [Clin Exp Immunol. 130: 404-8.](#)
5. Gassel, H.J. *et al.* (2000) Tolerance of rat liver allografts induced by short-term selective immunosuppression combining monoclonal antibodies directed against CD25 and CD54 with subtherapeutic cyclosporine. [Transplantation. 69: 1058-67.](#)
6. Herías, M.V. *et al.* (1999) Immunomodulatory effects of *Lactobacillus plantarum* colonizing the intestine of gnotobiotic rats. [Clin Exp Immunol. 116: 283-90.](#)
7. Penttila, I.A. *et al.* (2003) Maternal milk regulation of cell infiltration and interleukin 18 in the intestine of suckling rat pups. [Gut. 52: 1579-86.](#)
8. Sawitzki, B. *et al.* (2004) IFN-gamma regulation in anti-CD4 antibody-induced T cell unresponsiveness. [J Am Soc Nephrol. 15: 695-703.](#)
9. Wu, H. *et al.* (2005) DNA vaccination with naked DNA encoding MCP-1 and RANTES protects against renal injury in adriamycin nephropathy. [Kidney Int. 67: 2178-86.](#)
10. Stanisavljević S *et al.* (2016) Gut-associated lymphoid tissue, gut microbes and susceptibility to experimental autoimmune encephalomyelitis. [Benef Microbes. Feb 3 \[Epub ahead of print\]](#)
11. Stanisavljević, S. *et al.* (2018) Gut Microbiota Confers Resistance of Albino Oxford Rats to the Induction of Experimental Autoimmune Encephalomyelitis. [Front Immunol. 9: 942.](#)

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

Recommended Negative Controls

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

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