

Datasheet: MCA2417GA

Description:	RAT ANTI MOUSE GITRL
Specificity:	GITRL
Other names:	AITRL
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	YGL386
Isotype:	IgG1
Quantity:	0.1 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	■			1/25 - 1/50
Immunohistology - Frozen			■	
Immunohistology - Paraffin			■	
ELISA	■			
Immunoprecipitation			■	
Western Blotting			■	

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	Mouse
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% sodium azide
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Recombinant mouse GITRL.

**External Database
Links**

UniProt:

[Q9UNG2](#)

[Related reagents](#)

Entrez Gene:

[8995](#)

TNFSF18

[Related reagents](#)

Synonyms

AITRL, GITRL, TL6

Fusion Partners

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

Specificity

Rat anti Mouse GITRL antibody, clone YGL386 recognizes mouse glucocorticoid-induced tumour necrosis factor receptor ligand (GITRL), a 20 kDa member of the tumour necrosis factor ligand superfamily, otherwise known as TNFSF18.

Mouse GITRL is predominantly expressed on immature and mature dendritic cells, macrophages and B cells. Expression of mouse GITRL can be transiently up regulated on these cells, following lipopolysaccharide (LPS) stimulation, but protein expression is rapidly down modulated shortly after stimulation.

Studies demonstrate that GITRL can neutralise the suppressive effects of CD4+CD25+ regulatory T cells and can also provide a co-stimulatory signal for both naïve and primed T cells, suggesting a key role for GITRL in the regulation of T cell-mediated immunity.

Flow Cytometry

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

References

1. Cobbold, S.P. *et al.* (2004) Induction of foxP3+ regulatory T cells in the periphery of T cell receptor transgenic mice tolerized to transplants. [J Immunol. 172 \(10\): 6003-10.](#)
2. Sakihama, T. *et al.* (2008) A simple detection method for low-affinity membrane protein interactions by baculoviral display. [PLoS One. 3 \(12\): e4024.](#)
3. Tone, M. *et al.* (2003) Mouse glucocorticoid-induced tumor necrosis factor receptor ligand is costimulatory for T cells. [Proc Natl Acad Sci U S A. 100 \(25\): 15059-64.](#)

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

Rabbit Anti Rat IgG (STAR16...)

[DyLight®800](#)

Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR21...)	HRP
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight®549 , DyLight®649 , DyLight®800
Goat Anti Rat IgG (STAR131...)	Alk. Phos. , Biotin
Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR72...)	HRP

Recommended Negative Controls

[RAT IgG1 NEGATIVE CONTROL \(MCA1211\)](#)

North & South America	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-rad.com		Email: antibody_sales_uk@bio-rad.com		Email: antibody_sales_de@bio-rad.com

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