



## RayBiotech, Inc.

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### Certificate of Analysis and Data Sheet

## Rat Anti Mouse GITR With HRP-conjugated Secondary Antibody

**Catalog No.**  
DS-MB-01364

**Target Species**  
Mouse

**Isotype**  
IgG2b

**Synonyms**  
GITR

**Immunogen**  
NB2/6TG cells transfected with mouse GITR

**Specificity**  
DS-MB-01364 recognizes mouse glucocorticoid-induced tumor necrosis factor receptor (mGITR), a member of the tumor necrosis superfamily, which is also referred to as TNFRSF18. Mouse GITR is predominantly expressed by CD4<sup>+</sup>/CD25<sup>+</sup> T regulatory cells and on CD4<sup>+</sup>/CD25<sup>-</sup> cells upon activation.

Studies demonstrate that mouse GITR ligand (mGITRL) can bind to mGITR and neutralize the suppressive effects of CD4<sup>+</sup>CD25<sup>+</sup> regulatory T cells. GITR signaling can also enhance the proliferation of naïve and primed T cells, suggesting a key role for GITR in the regulation of T cell-mediated immunity.

**Product Type**  
Monoclonal Antibody

**Product Form**  
Purified IgG – liquid

**Preparation**  
Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

**Buffer Solution**  
Phosphate buffered saline pH7.4

**Preservatives & Stabilizers**  
0.09% Sodium Azide

**Approx. Protein Concentrations**  
IgG concentration 1.0 mg/ml

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**



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### Storage

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

Storage in frost-free freezers is not recommended.

This product should be stored undiluted.

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 dispatch.

### Applications

**Table Summary of antibody applications and working conditions**

Options / Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA			.	
Western Blotting			.	
IHC			.	
Immunofluorescence staining			.	
Flow Cytometry (2)	.			1/50 - 1/100

Note (1) Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.

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

### Secondary Antibody Applications

Options / Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunoassay (ELISA, Western blot)	.			1:5000-1:10000

### 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.*172:6003 - 6010.

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