

Technical Data Sheet

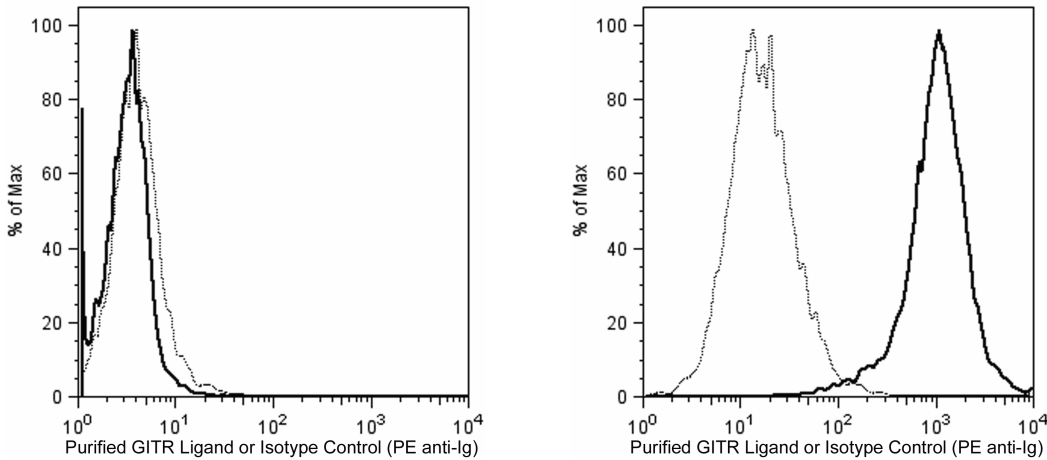
Purified Rat anti-Mouse GITR Ligand

Product Information

Material Number:	562238
Alternate Name:	Tnfsf18; Gitrl;Glucocorticoid-induced-tumor necrosis factor receptor ligand
Entrez Gene ID:	240873
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	MIH44
Immunogen:	GITRL/GFP-transfected L cells
Isotype:	Rat IgG2b, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The MIH44 monoclonal antibody specifically binds to Glucocorticoid-induced TNF-related Ligand (GITR Ligand). The GITR Ligand protein is encoded by the *Tnfsf18* (*Tumor necrosis factor ligand superfamily member 18*) gene. The GITR Ligand is a type II transmembrane protein that is expressed on endothelial cells and antigen presenting cells, including B cells, macrophage and dendritic cells. The GITR Ligand reportedly costimulates T cell activation and reverses CD4+CD25+ Treg cell-mediated suppression by interaction with its cognate receptor, GITR that is expressed by these cells.



**Flow cytometric analysis of mouse GITR Ligand expression on non-transfected and GITR Ligand-transfected cells.**  
Non-transfected (Left Panel) and GITR Ligand-transfected (Right Panel) P815 cells were surface stained with either Purified Rat IgG2b, κ Isotype Control (Cat. No. 553986) or Purified Rat Anti-Mouse GITR Ligand (Cat. No. 562238) followed by staining with PE Goat Anti-Rat Ig (Cat. No. 550767). Flow cytometric fluorescence histograms showing the expression of GITR Ligand (solid line histograms) or Ig Isotype Control staining (dotted line histograms) on non-transfected or GITR Ligand-transfected P815 cells were derived from gated events with the forward and side light-scatter characteristics of viable cells. Flow cytometric analyses were performed using a BD™ LSR II Flow Cytometer System.

Preparation and Storage

Store undiluted at 4°C.  
The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Application Notes

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
553986	Purified Rat IgG2b, κ Isotype Control	0.5 mg	A95-1
554656	Stain Buffer (FBS)	500 ml	(none)
550767	PE Goat Anti-Rat Ig	0.2 mg	Polyclonal

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## Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Please refer to [www.bdbiosciences.com/pharming/en/protocols](http://www.bdbiosciences.com/pharming/en/protocols) for technical protocols.
4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

## References

Igarashi H, Cao Y, Iwai H, et al. GITR ligand-costimulation activates effector and regulatory functions of CD4+ T cells. *Biochem Biophys Res Commun*. 2008; 369(4):1134-1138. (Clone-specific: Blocking, Flow cytometry, Inhibition)

Piao J, Kamimura Y, Iwai H, et al. Enhancement of T-cell-mediated anti-tumour immunity via the ectopically expressed glucocorticoid-induced tumour necrosis factor receptor-related receptor ligand (GITRL) on tumours. *Immunology*. 2009; 127(4):489-499. (Clone-specific: Flow cytometry)