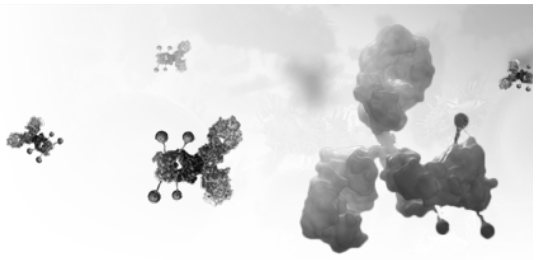

Rat Anti-Mouse GITR Monoclonal antibody, clone DTA-1 (CABT-L4383)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	The DTA-1 monoclonal antibody reacts with mouse GITR (glucocorticoid-induced TNFR-related gene), a 66-70 kDa co-stimulatory immune checkpoint molecule belonging to the Tumor Necrosis Factor superfamily (TNFRSF18). GITR is expressed at low levels on resting T lymphocytes and at high levels on regulatory T cells. GITR is upregulated on activated T cells where it provides co-stimulation. GITR ligand (GITRL) is found on B cells, macrophages, dendritic and endothelial cells, and is implicated in regulating both innate and adaptive immune responses. GITR is also thought to play a key role in dominant immunological self-tolerance maintained by regulatory T cells. Knockout studies in mice also suggest the role of this receptor is in the regulation of CD3-driven T cell activation and programmed cell death. The DTA-1 antibody is an agonistic antibody that is commonly used to induce GITR signaling in vivo.
Target	Mouse GITR
Immunogen	Mouse CD25+ CD4+ T cells
Isotype	IgG2b, λ
Source/Host	Rat
Species Reactivity	Mouse
Clone	DTA-1
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vivo GITR stimulation

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Molecular Weight	150 kDa
Format	0.2 μM filtered liquid. Purified from tissue culture supernatant in an animal free facility
Concentration	Lot specific
Size	5 mg
Buffer	PBS, pH 7.0. Contains no stabilizers or preservatives. [low endotoxin azide-free] Endotoxin level: <2EU/mg (<0.002EU/μg). Determined by LAL gel clotting assay Related dilution buffer: CABT-LB04
Preservative	None
Storage	The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.
Ship	Wet ice

BACKGROUND

Introduction	Receptor for TNFSF18. Seems to be involved in interactions between activated T-lymphocytes and endothelial cells and in the regulation of T-cell receptor-mediated cell death. Mediated NF-kappa-B activation via the TRAF2/NIK pathway.
Keywords	TNFRSF18;tumor necrosis factor receptor superfamily, member 18;tumor necrosis factor receptor superfamily member 18;AITR;CD357;GITR;activation-inducible TNFR family receptor;glucocorticoid-induced TNFR-related protein;TNF receptor superfamily activation-inducible protein;GITR-D;

GENE INFORMATION

Official Symbol	tumor necrosis factor receptor superfamily, member 18
Synonyms	TNFRSF18; tumor necrosis factor receptor superfamily, member 18; tumor necrosis factor receptor superfamily member 18; AITR; CD357; GITR; activation-inducible TNFR family receptor; glucocorticoid-induced TNFR-related protein; TNF receptor superfamily activation-inducible protein; GITR-D;
References	Vashist, N., et al. (2018). "Influenza-Activated ILC1s Contribute to Antiviral Immunity Partially Influenced by Differential GITR Expression." Front Immunol 9: 505. PubMed;

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