CD357 / GITR Monoclonal Rat Antibody (DTA-1)

Product Description

GITR (glucocorticoid-induced TNFR-related gene) is a member of the TNF-receptor superfamily, also known as TNFRSF18. It is expressed at low levels on resting T lymphocytes and at high levels on CD25 CD4 Tregs. The expression of GITR on T cells can be upregulated upon activation. Interaction of GITR with its ligand (GITRL) has been demonstrated to augment T cell activation, proliferation, cytokine production as well as MAPKs and NF-B activation, and abrogate the inhibitory function of CD25 CD4 Tregs. In vivo activation of GITR causes development of autoimmune diseases and restores the suppressed immune response. Catalog number key for antibody number 0976, Anti-GITR|Tnfrsf18 (DTA-1)

Call us: 800-304-5357 Email: techsupport@biotium.com

Product attributes

Antibody number #0976 Antibody type Primary Host species Rat Clonality Monoclonal Clone DTA-1 Isotype IgG2b, kappa Molecular weight 66-70 kDa (Homodimer) Synonyms Activation-inducible TNF-related ligand; AITRL; GITRL; Giluccocritocid induced TNF related protein ligand; hGITRL; Tl6; TNFSF18; Tumor necrosis factor (ligand) superfamily member 18 Human gene symbol TNFRSF18; Tumor necrosis factor (ligand) superfamily member 18 Entrez gene ID 21936 SwissProt O35714 Unigene 3180 Immunogen Mouse CD25+ CD4+ T cells Antibody target cellular localization Flow, surface (published for clone), Functional studies (published for clone) Species reactivity Mouse Antibody application notes Flow cytometry: 0.5-1 ug/million cells in 0.1 mL, Higher concentration may be required for direct detection with secondary antibody, conjugates than of indirect detection with secondary antibody, unmunofluorescence: 0.5-1 ug/mL, Optimal dilution for a specific application should be determined by user Positive control CD25+CD4+Tregs. Shipping condition Room temperature Storage Conditions	Product attributes				
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Host species Rat	Antibody reactivity (target)	GITR, Tnfrsf18			
Clone DTA-1 Isotype IgG2b, kappa Molecular weight 66-70 kDa (Homodimer) Synonyms Activation-inducible TNF-related ligand; AITRL; GITRL; Glucocorticoid induced TNF-related ligand; AITRL; GITRL; Glucocorticoid-induced TNF-related ligand; AITRL; GITRL; Glucocorticoid-induced TNF-related ligand; AITRL; GITRL; TNFSF18; Tumor necrosis factor (ligand) superfamily member 18 Human gene symbol TNFRSF18 Entrez gene ID 21936 SwissProt O35714 Unigene 3180 Immunogen Mouse CD25+ CD4+ T cells Antibody target cellular localization Expected antibody applications Plasma membrane (published for clone), Functional studies (published for clone) Species reactivity Mouse Antibody application notes Flow, surface (published for clone) Species reactivity Mouse Antibody application notes Flow cytometry: 0.5-1 ug/million cells in 0.1 mL, Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection using primary antibody conjugates than for indirect detection with secondary antibody, Immunofluorescence: 0.5-1 ug/mL, Optimal dilution for a specific application should be determined by user Positive control CD25+CD4+Tregs. Shipping condition Room temperature Storage Conditions Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C Regulatory status For research use only (RUO) Antibody/conjugate Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA, Purified; 0.2 mg/mL in PBS/0.05% BSA, Purified; BSA-free: 1 mg/mL in PBS/0.05% BSA, Purified; 0.2 mg/mL in PBS/0.05	Antibody type	Primary			
Clone DTA-1 Isotype IgG2b, kappa Molecular weight 66-70 kDa (Homodimer) Synonyms Activation-inducible TNF-related ligand; AITRL; GITRL; Glucocorticoid-induced TNFH related protein ligand; Glucocorticoid-induced TNFF related ligand; hGITRL; TL6; TNFSF18; Tumor necrosis factor (ligand) superfamily member 18 Human gene symbol TNFRSF18 Entrez gene ID 21936 SwissProt O35714 Unigene 3180 Immunogen Mouse CD25+ CD4+ T cells Antibody target cellular localization Expected antibody applications Flow, surface (published for clone), Functional studies (published for clone) Species reactivity Mouse Antibody application notes Flow cytometry: 0.5-1 ug/million cells in 0.1 mL, Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Immunofluorescence: 0.5-1 ug/mL, Optimal dilution for a specific application should be determined by user	Host species	Rat			
Isotype IgG2b, kappa	Clonality	Monoclonal			
Molecular weight 66-70 KDa (Homodimer) Synonyms Activation-inducible TNF-related ligand; AITRL; GITRL; Glucocorticoid induced TNF-related ligand; hGITRL; TLS; TNFSF18; Tumor necrosis factor (ligand) superfamily member 18 Human gene symbol TNFRSF18 Entrez gene ID 21936 SwissProt O35714 Unigene 3180 Immunogen Mouse CD25+ CD4+ T cells Antibody target cellular localization Flow, surface (published for clone), Functional studies (published for clone) Species reactivity Mouse Antibody application notes Flow cytometry: 0.5-1 ug/million cells in 0.1 mL, Higher concentration may be required for direct detection using primary antibody, Immunofluorescence: 0.5-1 ug/mL, Optimal dilution for a specific application should be determined by user Positive control CD25+CD4+Tregs. Shipping condition Room temperature Storage Conditions Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C Regulatory status For research use only (RUO) Antibody/conjugate formulation Conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS without azide Shelf life Guaranteed for at least 24 months from date of receipt when stored as recommended <	Clone	DTA-1			
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Shipping condition Room temperature	Antibody application notes	concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Immunofluorescence: 0.5-1 ug/mL, Optimal dilution for			
Storage Conditions	Positive control	CD25+CD4+Tregs.			
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bovine serum (Bos taurus), or recombinant BSA produced in Chinese hamster ovary cells. Inquire for the specific lot.	Cell/tissue expression	T-cells			
Antibody research areas Immunology, Inflammation	Product origin	bovine serum (Bos taurus), or recombinant BSA produced in			
	Antibody research areas	Immunology, Inflammation			

Antibody # prefix	Conjugation	Ex/Em (nm)	Laser line	Detection channel	Dye Features
BNC04	CF®405S	404/431	405	DAPI (microscopy), AF405	CF®405S Features
BNC88	CF®488A	490/515	488	GFP, FITC	CF®488A Features
BNC68	CF®568	562/583	532, 561	RFP, TRITC	CF®568 Features
BNC94	CF®594	593/614	561	Texas Red®	CF®594 Features
BNC40	CF®640R	642/662	633-640	Cy®5	CF®640R Features
BNC47	CF®647	650/665	633-640	Cy®5	CF®647 Features
BNC74	CF®740	742/767	633-685	775/50	CF®740 Features
BNCB	Biotin	N/A	N/A	N/A	
BNUB	Purified	N/A	N/A	N/A	
BNUM	Purified, BSA-free	N/A	N/A	N/A	

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References

Note: References for this clone sold by other suppliers may be listed for expected applications.

- 1. Clin Cancer Res (2013) 19(5): 1044-53. (functional studies)
- 2. J Immunol (2019) 203:864-872. (Flow)