

GITR / Tnfrsf18 (mouse) Antibody - With BSA and Azide

Rat Monoclonal Antibody [Clone DTA-1]

Catalog # AH12852

Product Information

Application	IF, FC
Primary Accession	O35714
Other Accession	21936 (Mouse) , 3180 (Mouse) , 482508 (Mouse)
Reactivity	Mouse
Host	Rat
Clonality	Monoclonal
Isotype	Rat / IgG2b, lambda
Clone Names	DTA-1
Calculated MW	25334

Additional Information

Gene ID	21936
Other Names	Tumor necrosis factor receptor superfamily member 18, Glucocorticoid-induced TNFR-related protein, CD357, Tnfrsf18, Gitr
Application Note	IF~~1:50~200 FC~~1:10~50
Storage	Store at 2 to 8°C.Antibody is stable for 24 months.
Precautions	GITR / Tnfrsf18 (mouse) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Tnfrsf18
Synonyms	Gitr
Function	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 (By similarity).
Cellular Location	[Isoform A]: Cell membrane; Single-pass type I membrane protein [Isoform C]: Cell membrane; Single-pass type I membrane protein
Tissue Location	Preferentially expressed in activated T lymphocytes

Background

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- κ 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.

References

Stephens GL, et al. 2004. J. Immunol. 173:5008. | Tone M, et al. 2003. Proc. Natl. Acad. Sci. USA 100:15059

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.