

Product datasheet for **DM3549P**

TNFRSF18 Rat Monoclonal Antibody [Clone ID: 7C13]

Product data:

Product Type:	Primary Antibodies
Clone Name:	7C13
Applications:	FC, IHC
Recommended Dilution:	FACS Analysis: 1/50-1/1000. Immunohistochemistry on Paraffin Sections: 1/50-1/200.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2
Clonality:	Monoclonal
Immunogen:	Mouse myeloma fused with spleen cells from a Rat immunized with Mouse T cells.
Specificity:	This antibody recognizes TNFRSF18/GITR.
Formulation:	PBS without preservatives or stabilizers State: Purified State: Lyophilized (0.2µm filtered) purified IgG fraction from Cell Culture Supernatant
Reconstitution Method:	Restore with 200 µl sterile PBS (final concentration 500 µg/ml).
Purification:	Protein A/G Affinity Chromatography
Conjugation:	Unconjugated
Storage:	Prior to and following reconstitution store the antibody at -20°C to -70°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	tumor necrosis factor receptor superfamily member 18
Database Link:	Q9Y5U5



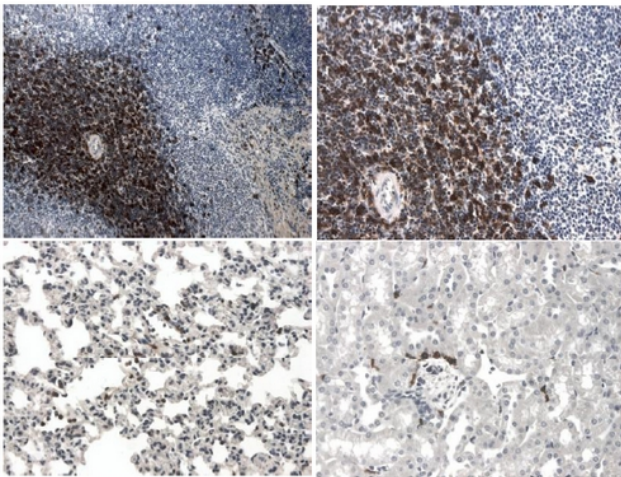
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Background:

TNFRSF18 or GITR (glucocorticoid-induced TNF receptor family-regulated gene) is a 25 kD TNF receptor superfamily member (also known as AITR and TNFRSF18) originally identified in the mouse by comparing untreated and dexamethasone-treated murine T cell hybridoma cells. Human GITR was subsequently identified by searching an expressed sequence tag database. GITR is expressed on activated lymphocytes and is upregulated by T cell receptor engagement. The cytoplasmic domain of GITR is homologous to CD40, 4-1BB and CD27 and has been shown to interact with TRAF 1-3, but not TRAF 5 or 6. GITR signaling has been shown to regulate T cell proliferation and TCR-mediated apoptosis, and to break immunological self-tolerance. GITR appears to be highly expressed on CD4+CD25+ T regulatory cells and has been shown to induce NF- κ B activation through TRAF2/NIK signaling. GITR has been proposed to be involved in the development of regulatory T cells and to regulate the activity of Th1 subsets. GITR binds GITRL, a TNF superfamily ligand expressed on endothelial cells, dendritic cells, macrophages, and B cells.

Synonyms:

AITR

Product images:

4% PFA fixed/Paraffin embedded mouse Spleen, Lung and Kidney sections from LPS treated mice was subjected to immunohistochemistry staining (DAB) of GITR.