

Human GITR/TNFRSF18 Biotinylated Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: BAF689

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human GITR/TNFRSF18 in ELISAs and Western blots. In sandwich immunoassays, less than 0.3% cross-reactivity with recombinant mouse GITR, recombinant human (rh) 4-1BB, rhFas, rhHVEM, rhDR6, rhOPG, rhGITR Ligand, and rhCD27 is observed.		
Source	Polyclonal Goat IgG		
Purification	Antigen Affinity-purified		
Immunogen	Mouse myeloma cell line NS0-derived recombinant human GITR/TNFRSF18 Gln26-Glu161 (Thr45Ala) Accession # Q9Y5U5		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.		
APPLICATIONS			
Please Note: Optimal diluti	ions should be determined by each laboratory for each applica	ation. General Protocols are available in the Technical Information section on our website.	
	Recommended Concentration	Sample	
Western Blot	0.1 μg/mL	Recombinant Human GITR/TNFRSF18 Fc Chimera (Catalog # 689-GR)	
Human GITR/TNFRSF18 Sandwich Immunoassay		Reagent	
ELISA Capture	2-8 μg/mL	Human GITR/TNFRSF18 Antibody (Catalog # MAB689)	
ELISA Detection	0.1 - 0.4 μg/mL	Human GITR/TNFRSF18 Biotinylated Antibody (Catalog # BAF689)	

PREPARATION AND STORAGE		
Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.	
Stability & Storage	ge Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution.	
	 6 months, -20 to -70 °C under sterile conditions after reconstitution. 	

Recombinant Human GITR/TNFRSF18 Fc Chimera (Catalog # 689-GR)

BACKGROUND

Standard

GITR (glucocorticoid-induced tumor necrosis factor receptor, also named AITR, activation-inducible TNF R family member), is a 228 amino acid (aa) type I transmembrane protein belonging to the TNF R family and has been designated TNFRSF18. The GITR cytoplasmic domain has striking homology with the cytoplasmic domain of 4-1BB and CD27. Human GITR shares 55% homology with murine GITR. GITR is expressed at low levels in peripheral blood T cells, bone marrow, thymus, spleen, and lymph nodes. In contrast to mouse GITR, expression of human GITR is not induced by treatment with dexamethasone, but is upregulated by antigen stimulation or by treatment with anti-CD3 plus anti-CD28, or PMA plus ionomycin. Human GITR ligand was identified from human umbilical vein endothelial cells and is a 177 aa polypeptide belonging to the TNF superfamily (TNFSF18). Ligation of GITR can activate NF-kB through TRAF2, and protect T cells from TCR activation-induced cell death. It has been proposed that GITR ligand and GITR may modulate T lymphocyte functions.

References:

- 1. Nocentini, G. et al. (1997) Proc. Natl. Acad. Sci. USA 94:6216.
- 2. Kwon, B. et al. (1999) J. Biol. Chem. 274:6056.
- 3. Gurney, A.L. et al. (1999) Current Biology 9:215.
- 4. Kwon, B. et al. (1999) Current Opinion in Immunology 11:340.

