PERFORMANCE DATA SHEET

2402

Monoclonal anti-human CD357 (GITR, AITR)*



mAb name/Clone: ANC5A3 *Isotype:* Mouse IgG3κ

Immunogen: Recombinant human GITR, PHA stimulated human PBL

CATALOG#: 368-820 (Preservative Free)

QUANTITY: 100 μg CONCENTRATION: 1.0 mg/ml

INFORMATION: Glucocorticoid induced Tumor Necrosis Factor receptor family related gene (GITR, AITR) is a type 1 228 amino acid transmembrane protein that has been designated TNFRSF18. GITR is expressed mainly by CD4+ CD25+ T lymphocytes. Its engagement by antibodies or its ligand (GITRL) induces a costimulatory signal which can break T cell suppression (2). GITR has been implicated as a regulatory mechanism in anti-parasitic immune responses (4), and is involved with Macrophages activation in atherosclerotic plaque formation (3). Clone ANC5A3 binds to human GITR in EIA and on stimulated cell surface in FACS. Preincubation of the receptor with an excess of this mAb will block binding of recombinant GITR Ligand.

References: 1) Gurney AL, et al. (1999) Curr Biol **9**(4): 215-218. 2) Ji HB, et al. (2004) J Immunol **172**(10): 5823-5827. 3) Kim WJ, WH Lee, et al. (2006) Immunology **119**(3): 44-9. 4) Furze RC, Selkirk ME, et al. (2006) Microbes Infect **8**(12-13): 2803-10. 5) Kohm AP, SD Miller, et al. (2004) J Immunol **172**: 4686-4690. 6) McHugh, R.S. et al. (2002) Immunity **16**:311. 7) Shin, H.H. et al. (2002) FEBS Lett. **514**:275. 8). Shimizu, J. et al. (2002) Nature Immunol. **3**:135.

STORAGE CONDITIONS: *Store at 2 - 5^oC*. **Open under aseptic conditions.** Freeze/Thawing is not recommended.

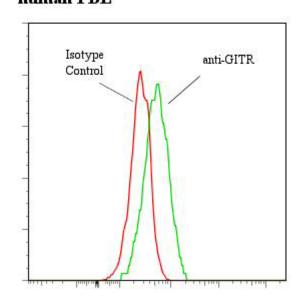
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:_____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl.

PRODUCTION: Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Purity was >95% Immunoglobulin by SDS-PAGE and contains less than 1% Bovine Immunoglobulin. Product was $0.2~\mu m$ filtered and vialed under aseptic conditions.

PERFORMANCE: Ficoll prepared human **peripheral blood leukocytes** (PBL) were stimulated 5 days in culture with PHA. Five x 10^5 cells per tube were washed and pre incubated 5 minutes with 20 μ l of 250 μ g/ml human IgG (to block non specific binding) after which they were incubated 45 minutes on ice with 80 μ l of anti-GITR mAb at a concentration of **5** μ g/ml. Cells were washed twice and incubated with 2° reagent Goat-anti-Mouse Ig/FITC (cat #232-011), after which they were washed three times and analyzed by FACS. Cells stained positive with a mean shift of **0.52** \log_{10} fluorescent units when compared to a Mouse IgG3 negative control (Catalog #287-010) at a similar concentration.

Binding of anti-GITR mAb +GAM/FITC to 5day-PHA stimulated human PBL



^{*}Research use only. Not for use in Diagnostic procedures.