Ancell

PERFORMANCE DATA SHEET

1904

Monoclonal anti-human CD357 (GITR, AITR)/Biotin*

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

Immunogen: Recombinant human GITR, PHA stimulated human PBL

CATALOG#: 368-030 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 resposes (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°C*. Freeze/thawing 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, 5% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

PERFORMANCE: Ficoll prepared human **peripheral blood mononuclear cells** were stimulated 5 days in culture with PHA. Five x 10⁵ cells per tube were washed and pre incubated 5 minutes with 20 μl of 250 μg/ml human IgG (to block non specific binding) after which they were incubated 45 minutes on ice with 80 μl of anti-GITR/Biotin at a concentration of **5** μg/ml. Cells were washed twice and incubated with 2° reagent Streptaviden/ R-PE (cat # 232-050), after which they were washed three times and analyzed by FACS. Cells stained positive with a mean shift of **0.9** log₁₀ fluorescent units when compared to a Mouse IgG3/Biotin negative control (Catalog # 287-030) at a similar concentration. Binding was blocked when cells were pre incubated with a 10-fold excess of unlabeled anti-GITR mAb (cat #368-020).

*This Product is intended for Laboratory Research use only.

Binding of anti-GITR/Biotin to stimulated human PBL

