

PERFORMANCE DATA SHEET

1850

*Monoclonal anti-human CD152 (CTLA-4)/Biotin**

mAb name/Clone: ANC152.2/8H5

Isotype: Mouse IgG1 κ

Immunogen: Stimulated human PBL's and human CD152 Ig fusion protein

CATALOG#: 359-030

QUANTITY: 100 μ g

CONCENTRATION: 1.0 mg/ml

INFORMATION: Human CD152 (CTLA-4) is a cell surface glycoprotein expressed at low levels on activated T cells. CD152 is a high affinity receptor for the costimulatory molecules CD80 (B7-1) and CD86 (B7-2) and appears to function as a negative regulator of T cell activation. Antibody ANC152.2 reacts with CTLA-4 expressed on activated T cells. ANC152.2 blocks binding of CD152 (CTLA-4) Ig fusion protein to its CD80/CD86 receptor.

References: T. Lindsten, et al, (1993) J Immunol 151: 3489-3499. T.L. Walunas, et al, (1994) Immunity 1:405-413. N.J. Karandikar, et al, (1996) J Exp Med 184: 783-788. A. Kitani, et al, (2000) J Immunol 165: 691-702.

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, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

PRODUCTION: Antibody from (low FBS containing) tissue culture supernatant was Protein A purified to >95% mouse immunoglobulin by SDS-PAGE (<1% bovine immunoglobulin), and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate using a desalting column.

PERFORMANCE: Anti-CD152/Biotin was assessed for its ability to detect immobilized recombinant CD152-muIg (Cat# 501-020) in EIA, using SA/HRP as a 2° detector. Signal was detectable at less than 1 ng/ml anti-CD152/Biotin.

Anti-CD152/Biotin was tested for binding to CD152-muIg-coated 4 μ beads in FACS (*Inquire*). Two x 10⁵ CD152-muIg coated beads per tube were spun down and incubated 45 minutes at 4°C with 80 μ l of anti-CD152/Biotin at a concentration of 10 μ g/ml. Cells were washed twice and incubated with 2° reagent Streptavidin/R-PE (Catalog #253-050), after which they were washed three times, fixed and analyzed by FACS. Beads stained positive with a mean shift of **2.28** log₁₀ fluorescent units when compared to a Mouse IgG1/Biotin isotype control (Catalog #278-030) at a similar concentration.

**This Product is intended for Laboratory Research use only.*

Binding of anti-CD152/Biotin +SA/PE to CD152-muIg-coated 4 μ m beads

