

PERFORMANCE DATA SHEET

1818

Monoclonal anti-human CD161/Biotin*

mAb name/Clone: B199.2

Isotype: Mouse IgG2b

Immunogen: Activated human NK cells

CATALOG#: 388-030

QUANTITY: 100 µg

CONCENTRATION: 1.0 mg/ml

INFORMATION: Human CD161 is a homodimeric disulfide-linked type II membrane bound glycoprotein found mainly on NK cells. CD161 has been implicated in the regulation of NK cell mediated cytotoxicity. Antibody B199.2 recognizes the dimeric 160 kd CD161 molecule.

References: : 1. I.M. Bennett, et al, (1996) J Exp Med 184: 1845-1856. 2. L. Azzoni, et al, (1998) J Immunol 161: 3493-3500.

3. Leukocyte Typing VI (T. Kishimoto, et al, eds.) Garland Publishing, Inc., New York (1997) p. 307-317.

STORAGE CONDITIONS: Store at 2 - 5°C. 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, 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: Five x 10⁵ ficoll prepared human peripheral blood mononuclear cells per tube were pre incubated 5 minutes with 250 µg/ml human IgG (to block non specific binding), after which they were incubated 45 minutes on ice with 80 µl of anti-CD161/Biotin at 5 µg/ml. Cells were then washed twice and incubated with 2^o reagent Streptavidin/R-PE (Catalog #253-050), after which they were washed three times, fixed and analyzed by FACS. A net 21% sub population of the cells stained positive with a mean shift of 1.23 log₁₀ fluorescent units when compared to a Mouse IgG2b/Biotin (Catalog #284-030) negative control at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD161 antibody (Catalog #388-020).

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

Binding of anti-CD161/Biotin to human cell types

