

PERFORMANCE DATA SHEET

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Monoclonal anti-human CD94 (Kp43)/Biotin*

mAb name/Clone: HP-3D9

Isotype: Mouse IgG1

Immunogen: Cultured human NK cells

CATALOG#: 315-030

QUANTITY: 100 µg

CONCENTRATION: 1.0 mg/ml

INFORMATION: Human CD94 expression is restricted to natural killer (NK) cells and a small subset of T lymphocytes. CD94 is a type II membrane glycoprotein of the c-type lectin superfamily and essentially lacks a cytoplasmic tail. Antibody HP-3D9 recognizes the CD94 molecule of 70 kd. Antibody HP-3D9 inhibits IL-2 dependent proliferation of NK cells.

References: J. Aramburu, et al, (1990) J Immunol **144**: 3238-3247. J. Aramburu, et al, J Immunol (1991) **147**: 714-721. A. Moretta, et al, J Exp Med (1994) **180**: 545-555. C. Chang, et al, Eur J Immunol (1995) **25**: 2433-2437. Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p.1437-1439.

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: Ficoll prepared human peripheral blood mononuclear cells were stimulated by incubating 5 days with 5 µg/ml PHA-P. Five x 10⁵ cells per tube were then washed and pre incubated 10 minutes with 20 µl human IgG at 250 µg/ml (to block non specific binding) after which they were incubated 45 minutes on ice with 80 µl of anti-CD94/Biotin at 10 µg/ml. Cells were washed twice and incubated with 2^o reagent Streptavidin/R-Phycoerythrin (Catalog #253-050), after which they were washed three times, fixed and analyzed by FACS. A net 46% sub population of the cells stained positive with a mean shift of 1.71 log₁₀ fluorescent units when compared to a Mouse IgG1/Biotin negative control (Catalog #278-030). Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD94 antibody (Catalog #315-020).

**Research Use Only. Not for use in Diagnostic procedures only.*

Binding of anti-CD94/Biotin +SA/PE to Stimulated human PBL

