

# PERFORMANCE DATA SHEET

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## Monoclonal anti-human CD94 (Kp43)/R-PE \*

**mAb name/Clone:** HP-3D9

**Isotype:** Mouse IgG1

**Immunogen:** Cultured human NK cells

**CATALOG#:** 315-050

**QUANTITY:** 120 tests

**VOLUME IN VIAL:** 0.2 ml

**WORKING DILUTION:** 1:50 (or use 1.6µl of concentrated stock per 5 x 10<sup>5</sup>-cell test)

**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. Do not freeze! Protect from light.

**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, 15% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**PRODUCTION:** Protein A purified antibody from tissue culture supernatant was conjugated to R-Phycoerythrin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at 0.25mg/ml.

**PERFORMANCE:** Ficoll prepared human peripheral blood mononuclear cells were stimulated by incubating 1 day at 5 x 10<sup>6</sup> cells/ml in RPMI 10% FBS media including 5 µg/ml Phytohemagglutinin-P. Five x 10<sup>5</sup> cells per tube were then washed and incubated 45 minutes on ice with 80 µl of anti-CD94/R-PE at a 1:50 dilution (5µg/ml). Cells were washed three times, fixed and analyzed by FACS. A net 24% sub population of the cells stained positive with a mean shift of 1.79 log<sub>10</sub> fluorescent units when compared to a Mouse IgG1/R-PE negative control (Catalog #278-050) at a similar concentration. 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.*

**Binding of anti-CD94/R-PE to stimulated human PBL**

