

1F-727-T100

Monoclonal Antibody to CD94 Fluorescein (FITC) conjugated (100 tests)

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| Clone: | HP-3D9 |
| Isotype: | Mouse IgG1 |
| Specificity: | The mouse monoclonal antibody HP-3D9 recognizes CD94, a 70 kDa type II transmembrane glycoprotein expressed on NK cells, NK-T cells, and subsets of CD8+ T cells and gamma/delta T cells. HLDA V; WS Code NK82 |
| Regulatory Status: | RUO |
| Immunogen: | Cultured human NK cells |
| Species Reactivity: | Human |
| Preparation: | The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary. |
| Storage Buffer: | The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide. |
| Storage / Stability: | Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label. |
| Usage: | The reagent is designed for Flow Cytometry analysis of human blood cells using 4 µl reagent / 100 µl of whole blood or 10 ⁶ cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests. |
| Expiration: | See vial label |
| Lot Number: | See vial label |
| Background: | CD94, also known as KLRD1 (killer cell lectin-like receptor D1), is a transmembrane glycoprotein of the C-type lectin family, which forms disulfide-linked heterodimers with NKG2A, B, C, E, H proteins, constituting functionally distinct receptors of NK cells and related cell types. CD94/NKG2A and CD94/NKG2B heterodimers serve as inhibitory, whereas CD94/NKG2C and CD94/NKG2E as activating receptors. The ligand for CD94/NKG2 complexes has been identified as HLA-E. Extent of CD94 expression on NK cell surface can be used to demonstrate their progress through the differentiation process. |

For laboratory research only, not for drug, diagnostic or other use.

**Antibodies****References:**

- *Romero P, Ortega C, Palma A, Molina IJ, Peñalva J, Santamaría M: Expression of CD94 and NKG2 molecules on human CD4(+) T cells in response to CD3-mediated stimulation. *J Leukoc Biol.* 2001 Aug;70(2):219-24.
- *Wada H, Matsumoto N, Maenaka K, Suzuki K, Yamamoto K: The inhibitory NK cell receptor CD94/NKG2A and the activating receptor CD94/NKG2C bind the top of HLA-E through mostly shared but partly distinct sets of HLA-E residues. *Eur J Immunol.* 2004 Jan;34(1):81-90.
- *Yu J, Mao HC, Wei M, Hughes T, Zhang J, Park IK, Liu S, McClory S, Marcucci G, Trotta R, Caligiuri MA: CD94 surface density identifies a functional intermediary between the CD56bright and CD56dim human NK-cell subsets. *Blood.* 2010 Jan 14;115(2):274-81
- *Phillips JH, Chang C, Mattson J, Gumperz JE, Parham P, Lanier LL: CD94 and a novel associated protein (94AP) form a NK cell receptor involved in the recognition of HLA-A, HLA-B, and HLA-C allotypes. *Immunity.* 1996 Aug;5(2):163-72.
- *Seo N, Tokura Y, Ishihara S, Takeoka Y, Tagawa S, Takigawa M: Disordered expression of inhibitory receptors on the NK1-type natural killer (NK) leukaemic cells from patients with hypersensitivity to mosquito bites. *Clin Exp Immunol.* 2000 Jun;120(3):413-9.
- *Hallermalm K, Seki K, De Geer A, Motyka B, Bleackley RC, Jager MJ, Froelich CJ, Kiessling R, Levitsky V, Levitskaya J: Modulation of the tumor cell phenotype by IFN-gamma results in resistance of uveal melanoma cells to granule-mediated lysis by cytotoxic lymphocytes. *J Immunol.* 2008 Mar 15;180(6):3766-74.
- *Bovenschen HJ, Van De Kerkhof PC, Gerritsen WJ, Seyger MM: The role of lesional T cells in recalcitrant psoriasis during infliximab therapy. *Eur J Dermatol.* 2005 Nov-Dec;15(6):454-8.
- *Ntrivalas EI, Kwak-Kim JY, Gilman-Sachs A, Chung-Bang H, Ng SC, Beaman KD, Mantouvalos HP, Beer AE: Status of peripheral blood natural killer cells in women with recurrent spontaneous abortions and infertility of unknown aetiology. *Hum Reprod.* 2001 May;16(5):855-61.

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