

Anti-mouse CD94 mAb

CATALOG#: MA1-CD94 (18d3)**QUANTITY:** 0.1 mg**DESCRIPTION:****ISOTYPE:****FORMULATION:****LOT#:****CONCENTRATION:** 0.1 mg/ml

Purified anti-mouse CD 94

Rat IgG2a

Anti-CD94 mAb is supplied as a frozen liquid comprised of 0.22 μ m sterile-filtered PBS (PH 7.4, 50 mM Sodium Phosphate, 100 mM Potassium Chloride, 150 mM NaCl) and containing no preservatives.**STORAGE CONDITIONS:**Store stock solution at $<-20^{\circ}\text{C}$. Store working solution at 4°C . Freeze/Thawing is not recommended.**PRODUCT STABILITY:**Product should retain for at least one year after shipping date when stored at $<-20^{\circ}\text{C}$ and the working solution should retain for at least one week at 4°C .**PRODUCTION:** Rat anti-mouse CD94 mAb was purified from serum free tissue culture supernatant of hybridoma cells. Purity was $>98\%$ by SDS-PAGE. The endotoxin level is ≤ 0.06 EU per μg of mAb.**INFORMATION:**

The 18d3 monoclonal antibody reacts with mouse CD94, a 70 kDa type II transmembrane glycoprotein. CD94 belongs to the C-type lectin superfamily and is present as a heterodimer with NKG2 on the surface. CD94 is expressed by NK cells and NKT cells, and plays an important role in adhesion and activation of NK cell lineage. CD94/NKG2 is expressed on Th1 but not Th2 cells and costimulates Th1 effector functions. DBA/2J mice are naturally CD94-deficient and do not express cell-surface CD94/NKG2A receptors, even on neonatal NK cells.

1. Meyers, J. H., A. Ryu, L. Monney, K. Nguyen, E. A. Greenfield, G. J. Freeman, and V. K. Kuchroo. 2002. Cutting edge: CD94/NKG2 is expressed on Th1 but not Th2 cells and costimulates Th1 effector functions. *J Immunol* 169:5382.
2. Vance, R. E., D. M. Tanamachi, T. Hanke, and D. H. Raulet. 1997. Cloning of a mouse homolog of CD94 extends the family of C-type lectins on murine natural killer cells. *Eur J Immunol* 27:3236.
3. Vance, R. E., J. R. Kraft, J. D. Altman, P. E. Jensen, and D. H. Raulet. 1998. Mouse CD94/NKG2A is a natural killer cell receptor for the nonclassical major histocompatibility complex (MHC) class I molecule Qa-1(b). *J Exp Med* 188:1841.
4. Vance, R. E., A. M. Jamieson, and D. H. Raulet. 1999. Recognition of the class Ib molecule Qa-1(b) by putative activating receptors CD94/NKG2C and CD94/NKG2E on mouse natural killer cells. *J Exp Med* 190:1801.

This Product is intended for Laboratory Research use only.

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