



## RayBiotech, Inc.

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# Certificate of Analysis and Data Sheet

## RAT ANTI MOUSE CD94:BIOTIN

With HRP-conjugated Secondary Antibody

**Catalog No.**  
DS-MB-00962

**Target Species**  
Mouse

**Isotype**  
IgG<sub>2a</sub>

### Preparation

**Preparation:** Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

**Immunogen:** CHO cells transfected with B6 allele of CD94

**Fusion Partners:** Spleen cells from immunised Lewis rats were fused with cells of the mouse P3X63-Ag8.653 myeloma cell line.

### Specificity

DS-MB-00962 recognizes murine CD94, a 70kD cell surface glycoprotein expressed primarily by mouse natural killer (NK) cells. The murine CD94 molecule forms heterodimers with NKG2A, C or E subunits to form the CD94/NKG2 receptor.

In mice the CD94/NKG2 receptor recognizes Qa-1<sup>b</sup>, a non-classical MHC class 1 molecule.

CD94/NKG2 receptors may play an important role in self-tolerance of NK cells during fetal and neonatal life.

\*Recent reports suggest that DBA/2J mice do not express cell surface CD94/NKG2A receptors (1).

### Formulation

**Product Type:** Monoclonal Antibody

**Product Form:** Purified IgG conjugated to Biotin – liquid

**Buffer Solution:** Phosphate buffered saline pH7.4

**Preservative Stabilizers:** 0.09% Sodium Azide, 1% Bovine Serum Albumin

**Approx. Protein Concentrations:** IgG concentration 0.1 mg/ml

### Storage

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

**Shelf Life:** 18 months from date of dispatch.

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**



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### Applications

**Table Summary of antibody applications and working conditions**

Options / Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA			•	
Western Blotting			•	
Immunohistology - frozen			•	
Immunohistology - paraffin			•	
Immunohistology - resin			•	
Immunoprecipitation			•	
Flow Cytometry	•			Neat - 1/10

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.

### Secondary Antibody Applications

Options / Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunoassay (ELISA, Western blot)	•			1:5000-1:10000

**Flow Cytometry:** Use 10ul of the suggested working dilution to label  $10^6$  cells in 100ul. The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity fc receptors. This may be reduced by using a Fc receptor blocking step.

### Reference

- Vance, R.E. *et al.* (2002) Implications of CD94 deficiency and monoallelic NKG2A expression for natural killer cell development and repertoire function. *Proc. Natl. Acad. Sci. USA.* 99:868-873.
- Vance, R.E. *et al.* (1999) Recognition of the Class Ib Molecule Qa-1<sup>b</sup> by Putative Activating Receptors CD94/NKG2C and CD94/NKG2E on Mouse Natural Killer Cells. *J. Exp. Med.* 190:1801-1812.

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