

## APC anti-mouse CD94 Antibody

<b>Catalog# / Size</b>	105511 / 25 µg 105512 / 100 µg
<b>Clone</b>	18d3
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	Kp43
<b>Isotype</b>	Rat IgG2a, κ
<b>Description</b>	CD94 is a 43/39 kD C-type lectin, also known as Kp43. It is present on all NK cells, NKT cells, and a subset of CD8-positive T lymphocytes in most mouse strains. CD94 is a type-II transmembrane protein with an extracellular lectin-like domain and a short cytoplasmic tail. CD94 is expressed as a disulphide-linked heterodimer with a NKG2 subunit believed to mediate signal transduction. When associated with NKG2A, the complex triggers inhibition; when associated with NKG2C, the complex triggers stimulation. The receptor complex of CD94 and NKG2 receptors bind to the ligand, Qa-1, and are thought to play a role in maintaining self-tolerance in developing NK cells.

### Product Details

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<b>Verified Reactivity</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Rat
<b>Immunogen</b>	CHO cells expressing the C57BL/6 alleles of CD94 and NKG2A
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions.
<b>Concentration</b>	0.2 mg/ml
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . For flow cytometric staining, the suggested use of this reagent is ≤ 0.06 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
<b>Excitation Laser</b>	Red Laser (633 nm)
<b>Application References</b>	1. Vance RE, <i>et al.</i> 1999. <i>J. Exp. Med.</i> 190:1801. 2. Tang X, <i>et al.</i> 2006. <i>J. Immunol.</i> 177:7645. <a href="#">PubMed</a>
<b>(PubMed link indicates BioLegend citation)</b>	
<b>RRID</b>	AB_2721458 (BioLegend Cat. No. 105511) AB_2721459 (BioLegend Cat. No. 105512)
<b>Disclaimer</b>	This product may be used for research purposes only. It is not licensed for resale and may only be used by the buyer. This product may not be used and is not licensed for clinical assays where the results of such assays are provided as a diagnostic service. If a diagnostic or therapeutic use is anticipated then a license must be requested from the University of California. The availability of such diagnostic and therapeutic use license(s) cannot be guaranteed from the University of California.

## Antigen Details

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<b>Structure</b>	C-type lectin; 43/39 kD
<b>Distribution</b>	NK cells, NK-T cells, CD8 <sup>+</sup> T subset
<b>Function</b>	Inhibits NK cell function
<b>Ligand/Receptor</b>	CD94/NKG2
<b>Cell Type</b>	NK cells, NKT cells, T cells
<b>Biology Area</b>	Immunology, Innate Immunity
<b>Molecular Family</b>	CD Molecules

### Antigen References

1. Barclay A, *et al.* 1997. The Leukocyte Antigen FactsBook Academic Press.
2. Lopez-Botet M, *et al.* 1997. *Immunol. Rev.* 155:165.
3. Moretta A, *et al.* 1997. *Immunol. Rev.* 155:105.
4. Phillips JH, *et al.* 1996. *Immunity* 5:163.

**Gene ID** [16643](#)

## Related Protocols

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[Cell Surface Flow Cytometry Staining Protocol](#)

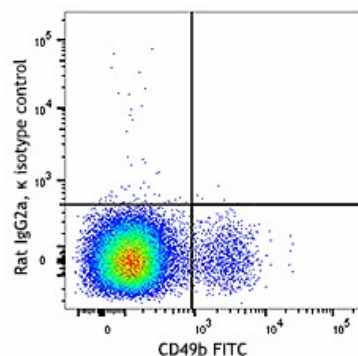
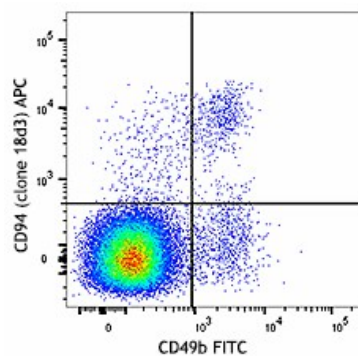
## Other Formats

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FITC anti-mouse CD94, PE anti-mouse CD94, PE/Cyanine7 anti-mouse CD94, APC anti-mouse CD94, PerCP/Cyanine5.5 anti-mouse CD94, TotalSeq™-A1009 anti-mouse CD94, TotalSeq™-C1009 anti-mouse CD94

## Product Data

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C57BL/6 mouse splenocytes were stained with CD49b (pan-NK cells) FITC and CD94 (clone 18d3) APC (top) or rat IgG2a, κ APC isotype control (bottom).

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