

FITC anti-mouse CD94 Antibody

Catalog# / Size	105506 / 500 µg
Clone	18d3
Regulatory Status	RUO
Other Names	Kp43
Isotype	Rat IgG2a, κ
Description	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

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	CHO cells expressing the C57BL/6 alleles of CD94 and NKG2A
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography, and conjugated with FITC under optimal conditions.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is ≤ 0.25 µg per 10 ⁶ cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application References (PubMed link indicates BioLegend citation)	<ol style="list-style-type: none">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. PubMed
RRID	AB_2133002 (BioLegend Cat. No. 105506)
Disclaimer	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

Structure	C-type lectin; 43/39 kD
------------------	-------------------------

Distribution	NK cells, NK-T cells, CD8 ⁺ T subset
Function	Inhibits NK cell function
Ligand/Receptor	CD94/NKG2
Cell Type	NK cells, NKT cells, T cells
Biology Area	Immunology, Innate Immunity
Molecular Family	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](#)

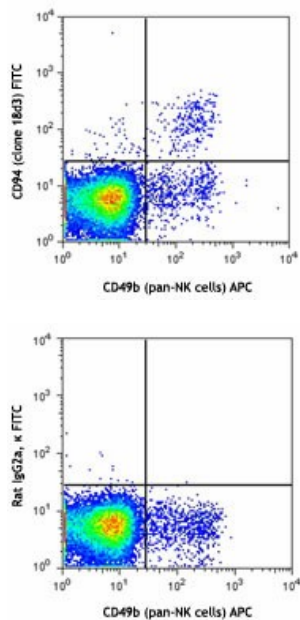
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

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



For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.

*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587