

## GMP APC anti-human CD94 Antibody

<b>Catalog# / Size</b>	260386 / 100 tests
<b>Clone</b>	DX22
<b>Other Names</b>	KP43
<b>Isotype</b>	Mouse IgG1, $\kappa$
<b>Description</b>	CD94 is a 43 kD type II transmembrane glycoprotein also known as KP43. CD94 belongs to the C-type lectin superfamily and is present as a covalently linked heterodimer with NKG2 on the cell surface. CD94 is expressed by NK cells, a subset of $\gamma\delta$ T cells, and NKT cells. The CD94/NKG2A complex serves as an inhibitory receptor specific for HLA-class I molecules.

### Product Details

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<b>Reactivity</b>	Human
<b>Reported Reactivity</b>	African Green, Baboon, Cynomolgus
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	NK cell line
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA) and a stabilizer.
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions.
<b>Concentration</b>	25 $\mu\text{g}/\text{mL}$
<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 5 $\mu\text{L}$ per million cells in 100 $\mu\text{L}$ staining volume or 5 $\mu\text{L}$ per 100 $\mu\text{L}$ of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
<b>Excitation Laser</b>	Red Laser (633 nm)
<b>Application Notes</b>	Additional reported applications (for the relevant formats) include: immunoprecipitation <sup>4</sup> , inhibition of NK cell-mediated lysis <sup>5</sup> , immunohistochemical staining of acetone-fixed frozen tissue sections, and spatial biology (IBEX) <sup>6,7</sup> .
<b>Application References</b>	<ol style="list-style-type: none"><li>1. Mizuki M, <i>et al.</i> 2000. <i>Sarcoidosis Vasc. Diffuse Lung Dis.</i> 17:54.</li><li>2. Phillip J, <i>et al.</i> 1996. <i>Immunity</i> 5:163.</li><li>3. Lazetic S, <i>et al.</i> 1996. <i>J. Immunol.</i> 157:4741.</li><li>4. Lanier LL, <i>et al.</i> 1998. <i>Immunity</i> 8:693.</li><li>5. Wooden SL, <i>et al.</i> 2005. <i>J. Immunol.</i> 175:1383.</li><li>6. Radtke AJ, <i>et al.</i> 2020. <i>Proc Natl Acad Sci USA.</i> 117:33455-33465. (SB) <a href="#">PubMed</a></li><li>7. Radtke AJ, <i>et al.</i> 2022. <i>Nat Protoc.</i> 17:378-401. (SB) <a href="#">PubMed</a></li></ol>
<b>(PubMed link indicates BioLegend citation)</b>	

## Disclaimer

**GMP RUO Flow Cytometry Antibodies.** BioLegend GMP RUO fluorophore conjugated antibodies are manufactured in a dedicated GMP facility and compliant with ISO 13485:2016. For research use only. Not for use in diagnostic or therapeutic procedures. Our processes include:

- Batch-to-batch consistency
- Material traceability
- Documented procedures
- Documented employee training
- Equipment maintenance and monitoring records
- Lot-specific certificates of analysis
- Quality audits per ISO 13485:2016
- QA review of released products

## Antigen Details

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<b>Structure</b>	C-type lectin, type II transmembrane glycoprotein, covalently associates with NKG2, 43 kD
<b>Distribution</b>	NK cells , T subset
<b>Function</b>	Inhibits NK function
<b>Cell Type</b>	NK cells, T cells
<b>Biology Area</b>	Immunology, Innate Immunity
<b>Molecular Family</b>	CD Molecules
<b>Antigen References</b>	1. Lopez-Botet M, <i>et al.</i> 1997. <i>Immunol. Rev.</i> 155:165. 2. Moretta A, <i>et al.</i> 1997. <i>Immunol. Rev.</i> 155:105.
<b>Gene ID</b>	<a href="#">3824</a>

## Related Protocols

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- [Cell Surface Flow Cytometry Staining Protocol](#)

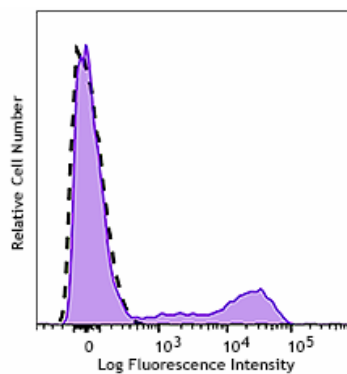
## Other Formats

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APC anti-human CD94, FITC anti-human CD94, PE anti-human CD94, Purified anti-human CD94, Alexa Fluor® 647 anti-human CD94, PerCP/Cyanine5.5 anti-human CD94, PE/Cyanine7 anti-human CD94, APC/Fire™ 750 anti-human CD94, PE/Dazzle™ 594 anti-human CD94, TotalSeq™-A0867 anti-human CD94, TotalSeq™-C0867 anti-human CD94, PE/Fire™ 810 anti-human CD94, TotalSeq™-B0867 anti-human CD94, TotalSeq™-D0867 anti-human CD94, APC/Cyanine7 anti-human CD94

## Product Data

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Typical results from human peripheral blood lymphocytes stained either with DX22 APC used at 5  $\mu$ L/test (filled histogram) or with an isotype control (open histogram).

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