

Purified anti-human CD94 Antibody

Catalog# / Size	305502 / 100 µg
Clone	DX22
Regulatory Status	RUO
Other Names	KP43
Isotype	Mouse IgG1, κ
Description	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 γδ T cells, and NKT cells. The CD94/NKG2A complex serves as an inhibitory receptor specific for HLA-class I molecules.

Product Details

Verified Reactivity	Human
Reported Reactivity	African Green, Baboon, Cynomolgus
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	NK cell line
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C.
Application	FC - Quality tested IHC-F - Reported in the literature. not verified in house
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 ≤ 0.5 µg per million cells or 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes	Additional reported applications (for the relevant formats) include: immunoprecipitation ⁴ , inhibition of NK cell-mediated lysis ⁵ , immunohistochemical staining of acetone-fixed frozen tissue sections, and spatial biology (IBEX) ^{6,7} .
Application References	<ol style="list-style-type: none">1. Mizuki M, <i>et al.</i> 2000. <i>Sarcoidosis Vasc. Diffuse Lung Dis.</i> 17:54.2. Phillip J, <i>et al.</i> 1996. <i>Immunity</i> 5:163.3. Lazetic S, <i>et al.</i> 1996. <i>J. Immunol.</i> 157:4741.4. Lanier LL, <i>et al.</i> 1998. <i>Immunity</i> 8:693.5. Wooden SL, <i>et al.</i> 2005. <i>J. Immunol.</i> 175:1383.6. Radtke AJ, <i>et al.</i> 2020. <i>Proc Natl Acad Sci USA.</i> 117:33455-33465. (SB) PubMed7. Radtke AJ, <i>et al.</i> 2022. <i>Nat Protoc.</i> 17:378-401. (SB) PubMed
(PubMed link indicates BioLegend citation)	
Product Citations	<ol style="list-style-type: none">1. Shao D, <i>et al.</i> 2008. <i>J Leukoc Biol.</i> 83:1323. PubMed2. Kato M, <i>et al.</i> 2021. <i>PLoS One.</i> 16:e0252116. PubMed3. Abd Hamid M <i>et al.</i> 2019. <i>Cancer Immunol Res.</i> 7(8):1293-1306 . PubMed
RRID	AB_314532 (BioLegend Cat. No. 305502)

Antigen Details

Structure	C-type lectin, type II transmembrane glycoprotein, covalently associates with NKG2, 43 kD
Distribution	NK cells , T subset
Function	Inhibits NK function
Cell Type	NK cells, T cells
Biology Area	Immunology, Innate Immunity
Molecular Family	CD Molecules
Antigen References	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.
Gene ID	3824

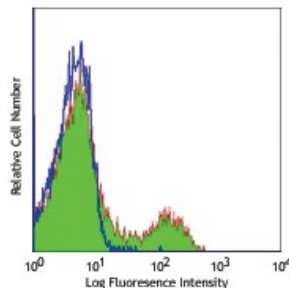
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

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

Product Data



Human peripheral blood lymphocytes stained with purified DX22, followed by anti-mouse IgGs FITC

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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