

Mouse anti-Human CD94 Monoclonal Antibody | anti-CD94 antibody

Anti-Hu CD94 PE-Cy7

CATALOG # AAA129172	HOST Mouse	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

CD94; Monoclonal Antibody; Anti-Hu CD94 PE-Cy7; KLR-D1; KLRD1; KCLLRD1; killer cell lectin like receptor D1; anti-CD94 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1 kappa
Clone Number	HP-3D9
Specificity	The mouse monoclonal antibody HP-3D9 recognizes an extracellular epitope of CD94, a 70kDa type II transmembrane glycoprotein expressed on NK cells, NK-T cells, and subsets of CD8+ T cells and gamma/delta T cells.
Purity/Purification	The purified antibody is conjugated with tandem dye PE-Cy7 under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Form/Format	Stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide
Applicable Applications for anti-CD94 antibody	FCM/FACS (Flow Cytometry)
Conjugation	PE-Cy7
Immunogen	Cultured human NK cells
Preparation and Storage	Store in the dark at 2-8 degree C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.

ADDITIONAL INFORMATION

Related Product Information for anti-CD94 antibody	CD94, also known as KLRD1 (killer cell lectin-like receptor D1), is a transmembrane glycoprotein of the C-type lectin family, which forms disulfide-linked heterodimers with NKG2A, B, C, E, H proteins, constituting Functionally distinct receptors of NK cells and related cell types. CD94/NKG2A and CD94/NKG2B heterodimers serve as inhibitory, whereas CD94/NKG2C and CD94/NKG2E as activating receptors. The ligand for CD94/NKG2 complexes has been identified as HLA-E. Extent of CD94 expression on NK cell surface can be used to demonstrate their progress through the differentiation process.
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References	*Yu J, Mao HC, Wei M, Hughes T, Zhang J, Park IK, Liu S, McClory S, Marcucci G, Trotta R, Caligiuri MA: CD94 surface density identifies a Functional Application (FUNC)tional intermediary between the CD56bright and CD56dim human NK-cell subsets. Blood. 2010 Jan 14;115(2):274-81, URL: http://www.ncbi.nlm.nih.gov/pubmed/19897577,*Phillips JH, Chang C, Mattson J, Gumperz JE, Parham P, Lanier LL: CD94 and a novel associated protein (94AP) form a NK cell receptor involved in the recognition of HLA-A, HLA-B, and HLA-C allotypes. Immunity. 1996 Aug;5(2):163-72., URL: http://www.ncbi.nlm.nih.gov/pubmed/8769479,*Seo N, Tokura Y, Ishihara S, Takeoka Y, Tagawa S, Takigawa M: Disordered expression of inhibitory receptors on the NK1-type natural killer (NK) leukaemic cells from patients with hypersensitivity to mosquito bites. Clin Exp Immunol. 2000 Jun;120(3):413-9., URL: http://www.ncbi.nlm.nih.gov/pubmed/10844517,*Hallermalm K, Seki K, De Geer A, Motyka B, Bleackley RC, Jager MJ, Froelich CJ, Kiessling R, Levitsky V, Levitskaya J: Modulation of the tumor cell phenotype by IFN-gamma results in resistance of uveal melanoma cells to granule-mediated lysis by cytotoxic lymphocytes. J Immunol. 2008 Mar 15;180(6):3766-74., URL: http://www.ncbi.nlm.nih.gov/pubmed/18322182,*Bovenschen HJ, Van De Kerkhof PC, Gerritsen WJ, Seyger MM: The role of lesional T cells in recalcitrant psoriasis during infliximab therapy. Eur J Dermatol. 2005 Nov-Dec;15(6):454-8., URL: http://www.ncbi.nlm.nih.gov/pubmed/16280298,*Ntrivalas EI, Kwak-Kim JY, Gilman-Sachs A, Chung-Bang H, Ng SC, Beaman KD, Mantouvalos HP, Beer AE: Status of peripheral blood natural killer cells in women with recurrent spontaneous abortions and infertility of unknown aetiology. Hum Reprod. 2001 May;16(5):855-61., URL: http://www.ncbi.nlm.nih.gov/pubmed/11331628,*Romero P, Ortega C, Palma A, Molina IJ, Pena J, Santamaría M: Expression of CD94 and NKG2 molecules on human CD4(+) T cells in response to CD3-mediated stimulation. J Leukoc Biol. 2001 Aug;70(2):219-24., URL: http://www.ncbi.nlm.nih.gov/pubmed/11493613,*Wada H, Matsumoto N, Maenaka K, Suzuki K, Yamamoto K: The inhibitory NK cell receptor CD94/NKG2A and the activating receptor CD94/NKG2C bind the top of HLA-E through mostly shared but partly distinct sets of HLA-E residues. Eur J Immunol. 2004 Jan;34(1):81-90., URL: http://www.ncbi.nlm.nih.gov/pubmed/14971033
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NCBI AND UNIPROT INFORMATION

NCBI GI #	334302835
NCBI GeneID	3824
UniProt Accession #	Q13241; O43321; O43773; Q9UBE3; Q9UEQ0
Molecular Weight	179
NCBI Official Full Name	Natural killer cells antigen CD94
NCBI Official Synonym Full Names	killer cell lectin-like receptor subfamily D, member 1
NCBI Official Symbol	KLRD1
NCBI Official Synonym Symbols	CD94
NCBI Protein Information	natural killer cells antigen CD94; KP43; CD94 antigen; NK cell receptor
UniProt Protein Name	Natural killer cells antigen CD94
UniProt Gene Name	KLRD1
UniProt Synonym Gene Names	CD94
UniProt Entry Name	KLRD1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/monoclonal/cd94-antibody-clone-hp-3d9-flow-cytometry-elisa/129172>