Human CD94 Fluorescein-conjugated Antibody

Monoclonal Mouse IgG_1 Clone # 131412

Catalog Number: FAB1058F

100 TESTS

DESCRIPTION

Species Reactivity	Human
Specificity	Recognizes human CD94 both in its homodimeric form and as a heterodimer with either NKG2A or NKG2C.
Source	Monoclonal Mouse IgG_1 Clone # 131412
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	BaF3 mouse pro-B cell line transfected with human CD94 and NKG2A
Conjugate	Fluorescein Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm (FITC)
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

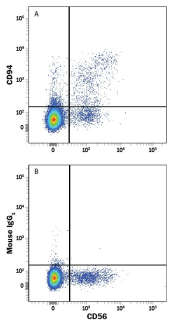
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Flow Cytometry	10 µL/10^6 cells	See Below

DATA

Flow Cytometry



Detection of CD94 in Human PBMCs by Flow Cytometry. Human peripheral blood mononuclear cells (PBMCs) were stained with Mouse Anti-Human NCAM-1/CD56 PE-conjugated Monoclonal Antibody (Catalog # FAB2408P) and either (A) Mouse Anti-Human CD94 Fluorescein-conjugated Monoclonal Antibody (Catalog # FAB1058F) or (B) Mouse IgG_1 Fluorescein Isotype Control (Catalog # IC002F). View our protocol for Staining Membrane-associated Proteins.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Protect from light. Do not freeze.** ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

CD94 is a 30 kDa type II transmembrane protein with an extracellular C-type lectin domain. It is expressed by natural killer (NK) cells and a subset of $CD8^+$ T cells, with cellular activation resulting in increased cell surface expression. Although CD94 can occur as a non-signaling homodimer, functional activity occurs when CD94 exists as a heterodimer with a NKG2 family member. The CD94/NKG2A heterodimer delivers an inhibitory signal to the expressing cell, whereas, the CD94/NKG2C heterodimer associates with the DAP12 adaptor protein and delivers an activating signal. Both heterodimeric complexes recognize HLA-E with an associated peptide derived from the signal peptide of other HLA proteins.

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