

Human

Lys32-Ile179 Accession # Q13241.2

Alexa Fluor 405

Detects human CD94 in direct ELISAs

Excitation Wavelength: 405 nm Emission Wavelength: 421 nm

Monoclonal Mouse IgG2B Clone # 1032011

Protein A or G purified from hybridoma culture supernatant

Human embryonic kidney cell HEK293-derived human CD94

Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide.

Human CD94 Alexa Fluor® 405-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 1032011

Catalog Number: FAB10581V

υυ μg

*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.

	ICA	

DESCRIPTION
Species Reactivity

Specificity

Immunogen

Conjugate

Formulation

Source Purification

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	0.25-1 μg/10 ⁶ cells	Human Blood Lymphocytes

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 an approximately 25 kDa type 2 transmembrane protein that plays an important role in regulating natural killer (NK) cell activation (1). Human CD94 consists of a 10 amino acid (aa) cytoplasmic domain, a 21 aa transmembrane segment, and a 148 aa extracellular domain (ECD) with a stem region and one C-type lectin domain (2). Alternative splicing generates additional isoforms that lack either the stem region, the terminal half of the ECD, or the cytoplasmic and transmembrane regions (3). Within the ECD, human CD94 shares 53% and 55% amino acid identity to mouse and rat CD94, respectively. CD94 is expressed at varying cell surface density on NK cells during their differentiation and on a subset of CD8⁺ T cells (4). It associates into disulfide-linked heterodimers with NKG2A/B, C, or E (5-8), and these complexes function as receptors for the nonclassical MHC class I molecule, HLA-E (9, 10). Ligation of CD94-NKG2A or CD94-NKG2C on NK cells triggers inhibitory or activating signals, respectively (11).

References

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