

Product Data Sheet

Biotin anti-human CD49e

Catalog # / Size: 328006 / 100 µg

Clone: NKI-SAM-1

Isotype: Mouse IgG2b, κ

Immunogen: U937 cells

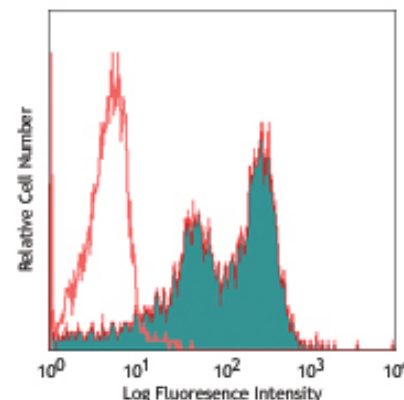
Reactivity: Human, **Cross-Reactivity:** Cynomolgus Macaque

Preparation: The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. **Do not freeze.**



Human peripheral blood lymphocytes stained with biotinylated NKI-SAM-1, followed by Sav-PE

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤ 1.0 µg per 10⁶ cells in 100 µl. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported (for the relevant formats) applications include: immunohistochemical staining of acetone-fixed frozen sections, immunoprecipitation, and inhibition of α5 integrin mediated cell adhesion. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 328004).

Application References: 1. Yoshino N, et al. 2000. *Exp. Anim. (Tokyo)* 49:97. (FC)

Description: CD49e is a type I integral membrane glycoprotein, known as α5 integrin, VLA-5 α chain. It forms noncovalent heterodimer with integrin β1 (CD29). CD49e contains two disulfide-linked subunits of 135 kD and 24 kD, and is mainly expressed on thymocytes, activated lymphocytes, endothelial cells, osteoblasts, melanoma, and some myeloid leukemia cells. CD49e/CD29 complex binds to fibronectin and neural adhesion molecule L1. It mediates monocytes migration, involves in the regulation of cells survival and apoptosis, and co-stimulates T cell activation.

Antigen References: 1. Tran Van Nhieu GT and Isberg RR. 1991. *J. Biol. Chem.* 266:24367.
2. Isaji T, et al. 2006. *J. Biol. Chem.* 281:33258.

Related Products:

Product
 Biotin Mouse IgG2b, κ Isotype Ctrl
 APC Streptavidin
 PE Streptavidin
 PE/Cy5 Streptavidin
 PE/Cy7 Streptavidin
 Cell Staining Buffer
 RBC Lysis Buffer (10X)
 Human TruStain FcX™ (Fc Receptor Blocking Solution)

Clone
 MPC-11

Application

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