

ANTI-MOUSE CD49b/Pan-NK Cells

**Conjugated Rat Monoclonal Antibodies Against Mouse CD49b/Pan-NK Cells
Clone DX5**

FITC-conjugate:	Catalog # 10726	500 mg
PE-conjugate:	Catalog # 10826	200 mg

SPECIFICITY:

CD49b is the $\alpha 2$ integrin subunit that associates with the integrin $\beta 1$ subunit, CD29. Anti-CD49b/Pan NK cells clone DX5 reacts with most NK cells, a subset of T-lymphocytes and platelets. Culture of CD49b⁺ NK cells with IL-2 results in loss of CD49b expression on a fraction of the cells and loss of cytotoxic activity.

CLONE: DX5

ISOTYPE: IgM, κ (rat)

FORMAT:

FITC-conjugate: Catalog # 10726: 500 μ g in 1.0 mL (0.5 mg/mL) diluent
PE-conjugate: Catalog # 10826: 200 μ g in 1.0 mL (0.2 mg/mL) diluent
Diluent: Aqueous buffered solution, containing 0.09% (w/v) sodium azide.

STABILITY AND STORAGE:

Store at 4°C. Do not freeze. Product is stable for at least 6 months.

APPLICATIONS AND DIRECTIONS FOR USE:

Flow cytometry:

Recommended amount per 1×10^6 cells in a volume of 100 μ L:

- FITC-conjugate (Cat No. 10726): $\leq 1 \mu$ g (2 μ L)
- PE-conjugate (Cat No. 10826): $\leq 1 \mu$ g (5 μ L)

Appropriate conditions should be established for each application.

Cell separation:

Positive selection of murine CD49b⁺ cells with StemCell's reagents for immunomagnetic cell separation. Please contact us for more information.

NOT FOR CLINICAL USE; INCLUDING IN VITRO DIAGNOSTIC USE, AND EX VIVO OR IN VIVO THERAPEUTIC USE IN CLINICAL TRIALS OR IN CLINICAL PRACTISE.

THIS REAGENT IS FOR RESEARCH ONLY

Hazardous Ingredient: Sodium Azide. Avoid exposure to skin and eyes, ingestion and contact with heat, acids and metals. Wash exposed skin with soap and water. Flush eyes with water. Dilute with running water before discharging into plumbing.

REFERENCES:

1. Barclay AN, Brown MH, Law SKA, McKnight AJ, Tomlinson MG, van der Merwe PA, eds. 1997. The Leukocyte Antigens Facts Book, 2nd Edition, CD49b. Academic Press, NY, p 257-259.
2. Arase H, Saito T, Phillips JH, Lanier LL. Cutting edge: the mouse NK cell-associated antigen recognized by DX5 monoclonal antibody is CD49b (alpha 2 integrin, very late antigen-2). J Immunol. 167:1141-1144. 2001