

# Mouse Anti Human CD57

**Code:** [ USC ] 57P-HI57A-50

**SIZE:** 50 TEST

**Clone:** HI57a

**Label・Form:** PE conjugation

**WSNo:**

**Isotype:** IgM

## Description:

CD57 McAb recognizes a 110–115KD carbohydrate antigen called HNK-1. HNK-1 is not a specific marker for NK cells, being shared by cells belonging to different lineages. CD57 antigen is expressed on 12–20% of normal peripheral blood lymphocytes including a subset of NK cells and a subset of CD8<sup>+</sup> Ts/Tc, and the expression increases with relation to age in peripheral blood lymphocytes, such as 25–40% in over 80 years. CD57 is not expressed by cord blood lymphocytes, B lymphocytes, monocytes, granulocytes, platelets and erythrocytes. CD57<sup>+</sup> cells also increase in some pathologies characterized by an imbalance of CD4/CD8 lymphocytes, e.g., AIDS, autoimmune diseases, allograft transplants, viral infections. The CD57 molecule is shared by normal neural and striated muscle and their neoplastic counterparts including neurofibromas, neurofibrosarcomas and malignant melanomas. CD57 is also present on normal and neoplastic prostatic epithelia, where it represents a prognostic factor showing a positive correlation between the number of CD57<sup>+</sup> cells and an increased survival of the neoplastic patients.

## Preparation:

The monoclonal antibody is purified from ascites by protein G affinity chromatography and is conjugated with PE under optimum conditions.

## Usage:

The purified reagent is effective for indirect immunofluorescence staining of human cells for flow cytometric analysis. The conjugated reagent (R-PE) is tested for flow cytometric analysis using 20  $\mu$ l/10<sup>6</sup> cells or 100  $\mu$ l peripheral blood cells

## Storage:

For purified forms, long term storage at –20°C. For conjugated forms, storage at 4°C, should not be frozen and avoid prolonged exposure to light.

## References:

Tadamitsu K, K.Hitoshi, A.E.G.Kr.van dem Borne, et al., eds. 1997. Leucocyte Typing VI: White Cell Differentiation Antigens. Garland Publishing, Inc., New York.



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