

Catalog# **CD57UL-100** **Size** **100 tests**

Mouse Anti-Human CD57

PRODUCT INFORMATION

CLONE: HI57a
ISOTYPE: Mouse IgM
Product Forms: Purified, PE conjugation.

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⁺ 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⁺ 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⁺ 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 20µl/10⁶ cells or 100µl 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 II: White Cell Differentiation Antigens. Garland Publishing, Inc., New York.