

anti-human CD57 FITC-conjugated

FITC-conjugated monoclonal antibody HI57a to CD57 (human)

Cat-No: **21810573**

500 µl

Clone: HI57a

Specificity: 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.

Isotype subclass: Mouse IgM

Form: The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is adjusted for direct use. No reconstitution is necessary

Physical state: Liquid

Buffer/Additives/Preservative: PBS containing 1% BSA and 0.09% sodium azide (pH 7.2)

Expiration date: The reagent is stable until the expiry date stated on the vial label.

Storage conditions: Store at 4 °C. Avoid prolonged exposure to light.

Application: Flow Cytometry

Reference: Tadimitsu and others eds.1997, Leucocyte TypingVI – White Cell Differentiation Antigens.Garland Publishing, Inc., New York

Background: CD57 recognizes HNK-1 which is not a specific marker for NK cells. The expression of CD57 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.

Warning: Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

ImmunoTools Excellent Quality - Advantageously priced

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