



Category:
Monoclonal Antibodies

Cat. #
V1162

Product Name:
CD57, Natural Killer Cell (HNK-1Leu7)

Description:

Monoclonal Mouse Anti-Human CD 57, Natural Killer Cell (Leu7, HNK-1)

Immunogen:

Human peripheral blood mononuclear cells.

Cellular Localization:

Cell membrane

Application:

Flow cytometry, Immunohistochemistry 1:50-1:100. The optimum dilution factor should be determined by the individual laboratory.

Species Reactivity:

Human, rat negative; others not tested.

Recommended Positive Control:

tonsil, Lymph Node. Natural Killer Granulocytes are located mainly in germinal centers

Presentation:

20 mM tris-borate, 150 mM Sodium Chloride, and 0.05% Sodium Azide, pH 7.5

Aliquoting Instructions:

Do not dilute the entire reconstituted solution at once. Dilute according to the particular application being used. In general, the 0.05M borate pH 8.0 containing 0.15M sodium chloride, 0.02% sodium azide, is a good diluent to use with most antibodies.

Staining Procedure:

This antibody can be used on frozen tissue section and on formalin-fixed, paraffin-embedded tissue sections. Prolonged fixation in buffered formalin can destroy the epitope. The antibody may be used at a dilution of 1:50-1:100 or high temperature antigen unmasking technique (Boiling the tissue in 10 mM citrate buffer for 10-20 mins. followed by cooling at RT for 10-20 mins) may enhance staining on formalin fixed tissues. The optimal conditions should be determined by the individual laboratory.

Specificity:

This antibody reacts with a 110 kD human cell surface glycoprotein known as HNK-1. This CD marker recognizes peripheral blood lymphocyte subsets and natural killer (NK) cells. Many cells which co-express CD57 and CD8 antigens are a subset of suppressor/cytotoxic T-cells. These antibodies recognize neuroendocrine cells and their tumors. CD57 antigens are not expressed on erythrocytes or platelets.

Storage:

Store at 2~8o C for short term, freeze under -20oC for long term storage.

Size: 0.2mg

Clone: B353

Isotype: IgM, k

Host: Mouse

Form: Purified

Mol. Wt. of Antigen: 110 kD

Concentration: 0.5 mg/ml

Units On Hand: YES

References:

1. Lanier LL, Le AM, Phillips JH, et al, Journal of Immunology, 131:1789-1796, 1983.
2. McGarry RC, Helfans SL, Quarles RH, et al, Nature, 306:376-378, 1983.
3. Abo, T and Balch CM, Journal of Immunology, 127:1024-1029, 1981.

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