



Category: Monoclonal Antibodies **Cat. #** 1107NF-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(not tested at our lab.), 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

Epitope:

not determined.

Presentation:

20 mM tris-borate, 150 mM Sodium Chloride, dialyzed media RPMI 1640/D-MEM containing fetal bovine serum, BMC-6 carrier polysaccharides, carrier protein, and 0.05% Sodium Azide, pH 7.5

Aliquoting Instructions:

Do not dilute the entire reconstituted solution at once. Withdraw aliquots as needed with a micropipette and keep concentrated stock at 4° C. 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. GENERAL INFO: When diluting for immunohistochemistry, ELISA or western blot, make the dilution in Antibody Diluting Buffer. Avoid diluting the entire contents of the vial at once since the diluted solution may have reduced stability.

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 in IHC with predigestion 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: 0.5 ml

Clone: B321 (NK-1)

Isotype: IgM, k

Host: Mouse

Form: Concentrated

Mol. Wt. of Antigen: 110 kD

Concentration: 0.2 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, Quarries 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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