



Category: Monoclonal Antibodies **Cat. #** 1107NF-V6044 **Product Name:** CD57, HNK-1 - Purified

Description:

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

Immunogen:

Human peripheral blood mononuclear cells.

Cellular Localization:

cell membrane

Application:

Immunofluorescence 5-20 ug/mL. Flow cytometry 1-5 ug/10⁶ cells.
Immunohistochemistry 5-20 ug/mL on frozen sections and formalin-fixed paraffin-embedded tissue sections using avidin-biotin system. The optimal dilution factors should be determined by the individual laboratory. This product was not quality controlled in flow cytometry.

Species Reactivity:

Human, rat negative; others not tested.

Recommended Positive Control:

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

Epitope:

not determined.

Presentation:

50 mM Sodium Borate, 150 mM Sodium Chloride, 20% Glycerol and 0.05% Sodium azide, pH 8.0.

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 cryostat sections as well as formalin-fixed, paraffin-embedded tissue sections. Prolonged fixation is buffered formalin can destroy the epitope. The antibody may be used at a dilution of 5-20 ug/mL in IHC. For consistent and reproducible results on formalin-fixed, paraffin-embedded sections, a high temperature antigen unmasking technique is required (see instructions below).

Antibody Form:

purified.

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: 0.2 mg

Clone: B321 (NK-1)

Isotype: IgM,k

Host: Mouse

Form: Purified

Mol. Wt. of Antigen: MW 110 kD

Concentration: 0.4 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.

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