



**Category:**  
Monoclonal Antibodies

**Cat. #**  
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/10<sup>6</sup> cells. Immunohistochemistry 5-20 ug/mL on frozen sections and formalin-fixed paraffin-embedded tissue sections using avidin-biotin system.

**Species Reactivity:**

Human, rat negative; others not tested.

**Recommended Positive Control:**

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

**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. 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. 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 in buffered formalin can destroy the epitope. The antibody may be used at a dilution of 5-20 ug/mL. For consistent and reproducible results on formalin-fixed, paraffin-embedded sections, a high temperature antigen unmasking technique is required.

**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 2~8°C for short term, freeze under -20°C for long term storage.

**Size:** 0.2 mg

**Clone:** B321 (NK-1)

**Isotype:** IgM, $\kappa$

**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, Quarles RH, et al, Nature, 306:376-378, 1983.

**For Research Use Only**

**Contact:** Antagene, Inc. | Tel: 1 (866) 964-2589 | Fax: 1 (888) 225-1868 | Email: [Info@antageneinc.com](mailto:Info@antageneinc.com)