



1P-158-T100

## Monoclonal Antibody to CD57 Phycoerythrin (PE) conjugated (100 tests)

<b>Clone:</b>	TB01
<b>Isotype:</b>	Mouse IgM
<b>Specificity:</b>	The mouse monoclonal antibody TB01 recognizes CD57, a carbohydrate antigen present mainly on NK cells, NK T cells, and in neural tissue. HLDA VI; WS Code NK16
<b>Regulatory Status:</b>	RUO
<b>Immunogen:</b>	A pool of neuroblastoma cell lines
<b>Species Reactivity:</b>	Human
<b>Preparation:</b>	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
<b>Storage Buffer:</b>	The reagent is provided in stabilizing Tris buffered saline (TBS) solution containing 15mM sodium azide.
<b>Storage / Stability:</b>	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
<b>Usage:</b>	The reagent is designed for Flow Cytometry analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 10 <sup>6</sup> cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	CD57, also known as HNK1 or Leu7, is a sulphated trisaccharide (3-O-sulfoglucuronic acid beta1-3 Gal beta1-4 GlcNAc) attached to several glycoproteins, including CD56, myelin glycoprotein PO, and neural cell adhesion molecule L1, as well as on glycolipids and chondroitin sulphate proteoglycans in the nervous system. It serves as a NK cell marker and it is expressed on well differentiated prostate cancers and uveal and cutaneous melanoma. CD57+ T cells are implicated as suppressors of T-cell responses.

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**Antibodies****References:**

- \*Lim SA, Kim TJ, Lee JE, Sonn CH, Kim K, Kim J, Choi JG, Choi IK, Yun CO, Kim JH, Yee C, Kumar V, Lee KM: Ex vivo expansion of highly cytotoxic human NK cells by cocultivation with irradiated tumor cells for adoptive immunotherapy. *Cancer Res.* 2013 Apr 15;73(8):2598-607.
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- \*Marquardt N, Béziat V, Nyström S, Hengst J, Ivarsson MA, Kekäläinen E, Johansson H, Mjösberg J, Westgren M, Lankisch TO, Wedemeyer H, Ellis EC, Ljunggren HG, Michaëlsson J, Björkström NK: Cutting edge: identification and characterization of human intrahepatic CD49a+ NK cells. *J Immunol.* 2015 Mar 15;194(6):2467-71.
- \*Wangerin H, Kristiansen G, Schlomm T, Stephan C, Gunia S, Zimpfer A, Weichert W, Sauter G, Erbersdobler A: CD57 expression in incidental, clinically manifest, and metastatic carcinoma of the prostate. *Biomed Res Int.* 2014;2014:356427.
- \*Fernandez S, French MA, Price P: Immunosenescent CD57+CD4+ T-cells accumulate and contribute to interferon- $\gamma$  responses in HIV patients responding stably to ART. *Dis Markers.* 2011;31(6):337-42.

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