

1F-158-T100

Monoclonal Antibody to CD57 Fluorescein (FITC) conjugated (100 tests)

Clone:	TB01
Isotype:	Mouse IgM
Specificity:	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
Regulatory Status:	RUO
Immunogen:	A pool of neuroblastoma cell lines
Species Reactivity:	Human
Preparation:	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary.
Storage Buffer:	The reagent is provided in stabilizing Tris buffered saline (TBS) solution containing 15mM sodium azide.
Usage:	The reagent is designed for Flow Cytometry analysis of human blood cells using 4 µl reagent / 100 µl of whole blood or 10 ⁶ cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.
Expiration:	See vial label
Lot Number:	See vial label
Background:	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- γ responses in HIV patients responding stably to ART. *Dis Markers.* 2011;31(6):337-42.

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