



11-158-C100

Monoclonal Antibody to CD57 Purified Antibody (0.1 mg)

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
Application:	Flow Cytometry Western Blotting Immunohistochemistry (paraffin sections) Immunohistochemistry (frozen sections) Immunocytochemistry
Purity:	> 95% (by SDS-PAGE)
Purification:	Purified by protein-A affinity chromatography
Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability:	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
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.

For laboratory research only, not for drug, diagnostic or other use.

**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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EXBIO Praha | Nad Safinou II 341 | 252 50 Vestec u Prahy | Czech Republic
Tel: +420 261 090 666 | Fax: +420 261 090 660 | orders@exbio.cz | www.exbio.cz