

Mouse anti-Human CD57 Antibody | anti-CD57 antibody

Anti-Hu CD57 PE-Cy7

CATALOG # AAA129346	HOST Mouse	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay
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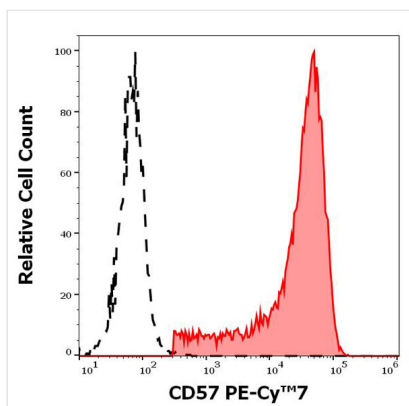
PRODUCT SYNONYMS

CD57; Anti-Hu CD57 PE-Cy7; beta-1; 3-glucuronyltransferase 1; HNK1; LEU7; 3-O-sulfoglucuronic acid beta1-3 Gal beta1-4 GlcNAc; anti-CD57 antibody

PRODUCT SPECIFICATIONS

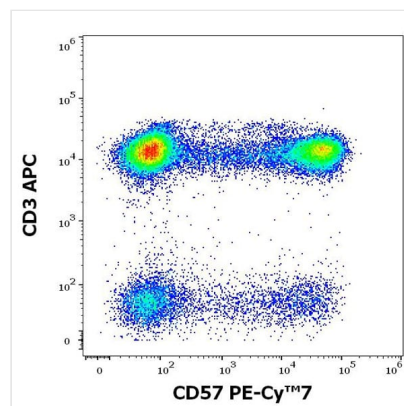
Host	Mouse
Reactivity	Human
Isotype	Mouse IgM
Clone Number	TB01
Specificity	The mouse monoclonal antibody TB01 recognizes CD57, a carbohydrate extracellular antigen present mainly on NK cells, NK T cells, and in neural tissue.
Purity/Purification	Purified antibody is conjugated with activated tandem dye of R-phycoerythrin-cyanine 7 (PE-Cy7) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
Form/Format	Stabilizing Tris buffered saline (TBS), pH 8.0, 15 mM sodium azide
Applicable Applications for anti-CD57 antibody	FCM/FACS (Flow Cytometry)
Immunogen	A pool of neuroblastoma cell lines
Conjugation	PE-Cy7
Preparation and Storage	Store at 2-8 degree C. Protect from prolonged exposure to light. Do not freeze.

IMAGES



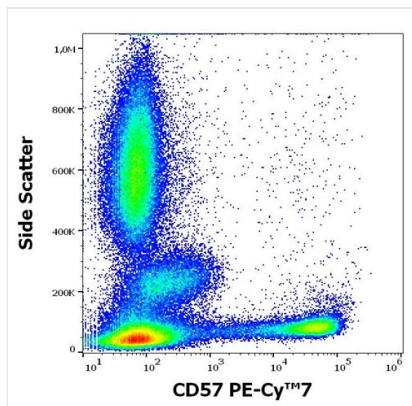
FCM/FACS (Flow Cytometry)

Separation of human CD3 positive CD57 positive T cells (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD57 (TB01) PE-Cy7 antibody (4ul reagent/100ul of peripheral whole blood).



FCM/FACS (Flow Cytometry)

Flow cytometry multicolor surface staining pattern of human lymphocytes stained using anti-human CD3 (UCHT1) APC antibody (10ul reagent/100ul of peripheral whole blood) and anti-human CD57 (TB01) PE-Cy7 antibody (4ul reagent/100ul of peripheral whole blood).



FCM/FACS (Flow Cytometry)
Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD57 (TB01) PE-Cy7 antibody (4ul reagent/100ul of peripheral whole blood).

ADDITIONAL INFORMATION

Related Product Information for anti-CD57 antibody	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.
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., URL: http://www.ncbi.nlm.nih.gov/pubmed/23580577, *Cunha KS, Caruso AC, Faria PA, Silva LE, Fonseca EC, Geller M, de Moura-Neto RS, Lopes VS: Evaluation of Bcl-2, Bcl-x and cleaved caspase-3 in malignant peripheral nerve sheath tumors and neurofibromas. An Acad Bras Cienc. 2013;85(4):1497-511., URL: http://www.ncbi.nlm.nih.gov/pubmed/24346802, *Phadwal K, Alegre-Abarrategui J, Watson AS, Pike L, Anbalagan S, Hammond EM, Wade-Martins R, McMichael A, Klenerman P, Simon AK: A novel method for autophagy detection in primary cells: impaired levels of macroautophagy in immunosenescent T cells. Autophagy. 2012 Apr;8(4):677-89., URL: http://www.ncbi.nlm.nih.gov/pubmed/22302009, *Marquardt N, Béziat V, Nystrom S, Hengst J, Ivarsson MA, Kekäläinen E, Johansson H, Mjosberg J, Westgren M, Lankisch TO, Wedemeyer H, Ellis EC, Ljunggren HG, Michaëlsson J, Björkstam NK: Cutting edge: identification and characterization of human intrahepatic CD49a+ NK cells. J Immunol. 2015 Mar 15;194(6):2467-71., URL: https://pubmed.ncbi.nlm.nih.gov/25672754/, *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., URL: https://pubmed.ncbi.nlm.nih.gov/24977150/, *Fernandez S, French MA, Price P: Immunosenescent CD57+CD4+ T-cells accumulate and contribute to interferon-? responses in HIV patients responding stably to ART. Dis Markers. 2011;31(6):337-42., URL: http://www.ncbi.nlm.nih.gov/pubmed/22182806 ,

NCBI AND UNIPROT INFORMATION

NCBI GI #	77695914
NCBI GeneID	27087
NCBI Accession #	NP_061114.2
NCBI GenBank Nucleotide #	NP_061114.2
UniProt Accession #	Q9P2W7
NCBI Official Full Name	galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase 1 isoform 1
NCBI Official Synonym Full Names	beta-1,3-glucuronyltransferase 1
NCBI Official Symbol	B3GAT1
NCBI Official Synonym Symbols	NK1; CD57; HNK1; LEU7; NK-1; GLCATP; GLCUATP

NCBI Protein Information	galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase 1
UniProt Protein Name	Galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase 1
UniProt Gene Name	B3GAT1
UniProt Synonym Gene Names	GlcUAT-P

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/mouse-human-antibody/cd57/129346>