

TECHNICAL DATA SHEET

CyFlow™ CD157 APC Anti-Hu; Clone SY11B5

REF CB736754

For Research Use Only.
Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD157
Alternative Names	BST-1, BST1, BP-3/IF7, Mo5
Clone	SY11B5
Clonality	monoclonal
Format	APC
Host / Isotype	Mouse / IgG1
Species Reactivity	Human, Non-Human Primates
Negative Species Reactivity	—
Quantity	100 tests
Immunogen	Human CD157

Specificity

The mouse monoclonal antibody SY11B5 recognizes CD157 antigen, a 45 kDa GPI-anchored protein expressed mainly on monocytes, macrophages, granulocytes and bone marrow stromal cells.

Contact Information:

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Application

The reagent is designed for Flow Cytometry analysis of human blood cells. Recommended usage is 10 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in stabilizing phosphate buffered saline (PBS) solution, pH ≈7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

CD157 (cADPr hydrolase 2) is a GPI-anchored ectoenzyme possessing ADP-ribosyl cyclase and cyclic ADP-ribose hydrolase activity. It uses NAD and cADP-ribose as substrates. CD157 is expressed on granulocytes, monocytes, macrophages, follicular dendritic cells, bone marrow stromal cells and human umbilical cord vein endothelial cells. In case of rheumatoid arthritis its expression is often higher and it is also differentially expressed in the myeloid leukemias. It may also have a signaling role.

References

- Sutherland R, Acton E, Keeney M, Borowitz M, Richards S, Fletcher M, Whitby L, Barnett D, Illingworth A: Recommended antibody clones and conjugates suitable for high-sensitivity flow cytometric detection of PNH Red (RBC) and White (WBC) Blood Cells. Cytometry Part B: Clinical Cytometry. 2013 Nov 1; 84(6):422-3. < No PMID >
- Sutherland DR, Acton E, Keeney M, Davis BH, Illingworth A: Use of CD in FLAER-based assays for high-sensitivity PNH granulocyte and PNH monocyte detection. Cytometry Part B: Clinical Cytometry. 2014 Jan 1; 86(1):44-55. < PMID: 23922226 >
- Marinov I, Kohoutová M, Tkáčová V, Pešek A, Čermák J, Cetkovský P: Clinical relevance of CD for rapid and cost-effective simultaneous evaluation of PNH granulocytes and monocytes by flow cytometry. Int J Lab Hematol. 2015 Apr; 37(2):231-7. < PMID: 24963875 >

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- Arriga R, Caratelli S, Coppola A, Spagnoli GC, Venditti A, Amadori S, Lanzilli G, Lauro D, Palomba P, Sconocchia T, Del Principe MI: Enhancement of anti-leukemia activity of NK cells in vitro and in vivo by inhibition of leukemia cell-induced NK cell damage. Oncotarget. 2016 Jan 12; 7(2):2070. < PMID: 26655503 >
- Marinov I, Illingworth AJ, Benko M, Sutherland DR: Performance characteristics of a non-FLAER-based PNH assay for simultaneous evaluation of PNH neutrophils and PNH monocytes by flow cytometry, following published PNH guidelines. Cytometry B Clin Cytom. 2016 Jun 13; < PMID: 27294344 >

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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