

1P-136-T025

## Monoclonal Antibody to CD157 Phycoerythrin (PE) conjugated (25 tests)

<b>Clone:</b>	SY11B5
<b>Isotype:</b>	Mouse IgG1
<b>Specificity:</b>	The mouse monoclonal antibody SY11B5 recognizes CD157, an approximately 45 kDa GPI-anchored protein expressed mainly on monocytes, macrophages, granulocytes and bone marrow stromal cells.
<b>Regulatory Status:</b>	RUO
<b>Immunogen:</b>	Human CD157
<b>Species Reactivity:</b>	Human, Non-Human Primates
<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 phosphate buffered saline (PBS) 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 (0.25 ml) is sufficient for 25 tests.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	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 is expression is often higher and it is also differentially expressed in the myeloid leukemias. It may also have a signaling role.
<b>References:</b>	*Arriga R, Caratelli S, Coppola A, Spagnoli GC, Venditti A, Amadori S, Lanzilli G, Lauro D, Palomba P, Sconocchia T, Del Principe MI, Maurillo L, Buccisano F, Capuani B, Ferrone S, Sconocchia G: Enhancement of anti-leukemia activity of NK cells in vitro and in vivo by inhibition of leukemia cell-induced NK cell damage. *Correia RP, Bento LC, Bortolucci AC, Alexandre AM, Vaz AD, Schimidell D, Pedro EC, Perin FS, Nozawa ST, Mendes CE, Barroso RS, Bacal NS: Technical advances in flow cytometry-based diagnosis and monitoring of paroxysmal nocturnal hemoglobinuria. Einstein (Sao Paulo). 2016 Jul-Sep;14(3):366-373.

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