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30-2895: Anti-Hu CD173 PE Mab(MEM-195)

Clone Name :	MEM-195
Application :	FACS
Reactivity :	Human
Conjugate :	PE
Alternative Name :	Lewis Y, blood group H2 antigen, LeY
Isotype :	Mouse IgM
Immunogen Information :	Human thrombocytes

Description

Specificity: The antibody MEM-195 reacts with CD173 (H2), an extracellular saccharide antigen expressed mainly during early hematopoiesis; it is also expressed on endothelial cells.

CD173 (blood group antigen H2) is a fucosylated saccharide (Fuc-alpha-1-2-Gal-beta-1-4-GlcNAc-beta) generated by beta-D-galactoside 2-alpha-L-fucosyltransferase (FUT1). CD173 belongs to markers of early hematopoiesis; it is expressed mainly on CD34-positive hematopoietic progenitor cells. CD173 is a precursor structure of CD174 (Lewis Y) and is also structurally related to CD15 (Lewis X). On endothelial cells CD173 and CD174 are concentrated on pseudopodial extensions responsible for initial contacts between endothelial cells.

Product Info

Amount :	100 Tests
Purification :	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
Content :	Formulation: Stabilizing Tris buffered saline (TBS), pH 8.0, 15 mM sodium azide
Storage condition :	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 10^6 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

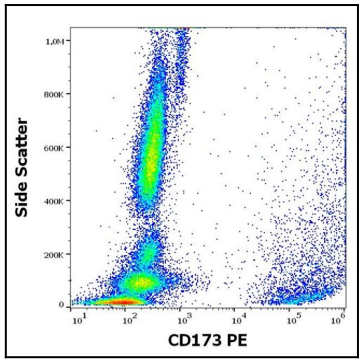

Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD173 (MEM-195) PE antibody (10 Î¼l reagent / 100 Î¼l of peripheral whole blood).

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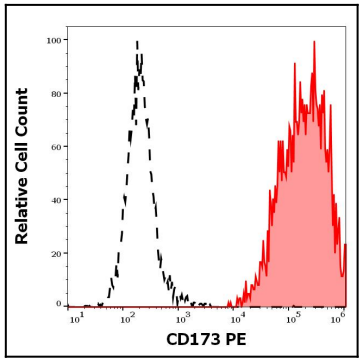

Figure 2: Separation of human CD173 positive blood debris (red-filled) from lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD173 (MEM-195) PE antibody (10 Î¼l reagent / 100 Î¼l of peripheral whole blood).