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30-1168PE: PE Conjugated Anti-CD97 Monoclonal Antibody (Clone:MEM-180)

Clonality :	Monoclonal
Clone Name :	MEM-180
Application :	FACS
Reactivity :	Human
Conjugate :	PE
Gene :	CD97
Gene ID :	976
Uniprot ID :	P48960
Alternative Name :	CD97
Isotype :	Mouse IgG1
Immunogen Information :	PHA-activated peripheral blood cells

Description

CD97 is a G-protein-coupled seven-span transmembrane adhesive receptor that is constitutively expressed on granulocytes and monocytes and rapidly upregulated on T and B cells upon activation. CD97 is produced in alternatively spliced forms and its cellular ligand is CD55 (DAF), which protects various cell types from complement-mediated damage. Interaction of CD97 on leukocytes and CD55 on vessel cells probably facilitate leukocyte activation and migration into the tissues, similarly, CD97 seems to play a role in tumour migration and invasiveness. CD97 is involved in T cell regulation and peripheral granulocyte homeostasis.

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 :	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage condition :	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light.

Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 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.

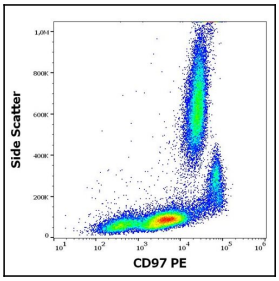


Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD97 (MEM-180) PE antibody (10 µl reagent / 100 µl of peripheral whole blood).

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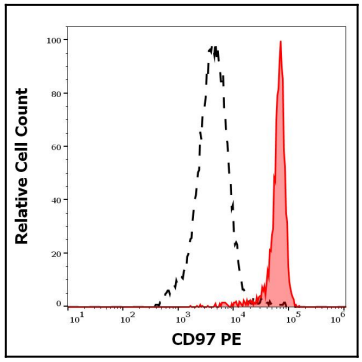


Figure2: Separation of human monocytes (red-filled) from lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD97 (MEM-180) PE antibody (10 µl reagent / 100 µl of peripheral whole blood).

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