TECHNICAL DATA SHEET

CyFlow™ CD97 FITC

Anti-Hu; Clone MEM-180

REF **AU837788**

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD97
Alternative Names	EMR1
Clone	MEM-180
Clonality	monoclonal
Format	FITC
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	—
Quantity	100 tests
Immunogen	PHA-activated peripheral blood cells

Specificity

The mouse monoclonal antibody MEM-180 recognizes an unique epitope on CD97 antigen, a 75-85 kDa surface glycoprotein of G-protein-coupled receptor family, expressed on activated B and T lymphocytes, monocytes/macrophages, dendritic cells and granulocytes.

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Application

The reagent is designed for Flow Cytometry analysis of human blood cells. Recommended usage is 20 µl reagent / 100 µl of whole blood or 10^6 cells in a suspension. The content of a vial (2 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

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 tumor migration and invasiveness. CD97 is involved in T cell regulation and peripheral granulocyte homeostasis.

References

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

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