

TECHNICAL DATA SHEET

CyFlow™ CD97 Purified Anti-Hu; Clone MEM-180

REF AH423849

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD97
Alternative Names	EMR1
Clone	MEM-180
Clonality	monoclonal
Format	Purified
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	PHA-activated peripheral blood cells

Specificity

The mouse monoclonal antibody MEM-180 recognizes a 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

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Immunoprecipitation

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH \approx 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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