



A6-267-T025

Monoclonal Antibody to CD97 Alexa Fluor® 647 conjugated (25 tests)

Clone:	MEM-180
Isotype:	Mouse IgG1
Specificity:	The antibody MEM-180 recognizes a unique epitope on CD97, 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. HLDA VI; WS Code BP 415 HLDA VI; WS Code NL N-L023
Immunogen:	PHA-activated peripheral blood cells
Species Reactivity:	Human
Preparation:	The purified antibody is conjugated with Alexa Fluor® 647 under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Storage Buffer:	The reagent is provided in phosphate buffered saline (PBS) containing 15 mM sodium azide and 0.2% (w/v) high-grade protease free Bovine Serum Albumin (BSA) as a stabilizing agent.
Storage / Stability:	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. Short-term exposure to room temperature should not affect the quality of the reagent. However, if reagent is stored under any conditions other than those specified, the conditions must be verified by the user.
Usage:	The reagent is designed for Flow Cytometry analysis of human blood cells using 4 µl reagent / 100 µl of whole blood or 10 ⁶ cells in a suspension. The content of a vial (0.1 ml) is sufficient for 25 tests.
Expiration:	See vial label
Lot Number:	See vial label
Background:	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.

For laboratory research only, not for drug, diagnostic or other use.

**Antibodies****References:**

*Visser L, de Vos AF, Hamann J, Melief MJ, van Meurs M, van Lier RA, Laman JD, Hintzen RQ. Expression of the EGF-TM7 receptor CD97 and its ligand CD55 (DAF) in multiple sclerosis. *J Neuroimmunol.* 2002 Nov;132(1-2):156-63.

*Galle J, Sittig D, Hanisch I, Wobus M, Wandel E, Loeffler M, Aust G: Individual cell-based models of tumor-environment interactions: Multiple effects of CD97 on tumor invasion. *Am J Pathol.* 2006 Nov;169(5):1802-11.

*Abbott RJ, Spendlove I, Roversi P, Fitzgibbon H, Knott V, Teriete P, McDonnell JM, Handford PA, Lea SM: Structural and functional characterization of a novel T cell receptor co-regulatory protein complex, CD97-CD55. *J Biol Chem.* 2007 Jul 27;282(30):22023-32.

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*Leukocyte Typing VI., Kishimoto T. et al. (Eds.), Garland Publishing Inc. (1997).

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