

TECHNICAL DATA SHEET

CyFlow™ CD69 PE-Cy7 Anti-Hu; Clone FN50

REF CW391355

For Research Use Only.
Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD69
Alternative Names	AIM, VEA
Clone	FN50
Clonality	monoclonal
Format	PE-Cy7
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	—
Quantity	100 tests
Immunogen	Anti-μ-stimulated human B lymphocytes

Specificity

The mouse monoclonal antibody FN50 recognizes CD69 antigen, a lymphocyte early activation marker

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Application

The reagent is designed for Flow Cytometry analysis of human blood cells. Recommended usage is 4 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension. The content of a vial (0.4 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

CD69 (CLEC2C; C-type lectin domain family 2 C or AIM) is one of the earliest inducible cell surface molecules acquired during leukocyte activation. This glycoprotein serves as a lectin-type receptor in lymphocytes, NK cells and platelets; it is involved in lymphocyte proliferation. CD69 expression is counteracted on T cells in the AIDS stage of HIV infection, and may be also predictive for clinical response to chemoimmunotherapy.

References

- Knapp W, Dorken B, Gilks W, Rieber EP, Schmidt RE, Stein H, von dem Borne AEGK (Eds): Leucocyte Typing IV. Oxford University Press, Oxford. 1989; 1-1820. < NLM ID: 8914679 >
- López-Cabrera M, Santis AG, Fernández-Ruiz E, Blacher R, Esch F, Sánchez-Mateos P, Sánchez-Madrid F: Molecular cloning, expression, and chromosomal localization of the human earliest lymphocyte activation antigen AIM/CD69, a new member of the C-type animal lectin superfamily of signal-transmitting receptors. J Exp Med. 1993 Aug 1; 178(2):537-47. < PMID: 8340758 >
- Nielsen SD, Afzelius P, Ersbøll AK, Nielsen JO, Hansen JE: Expression of the activation antigen CD69 predicts functionality of in vitro expanded peripheral blood mononuclear cells (PBMC) from healthy donors and HIV-infected patients. Clin Exp Immunol. 1998 Oct; 114(1):66-72. < PMID: 9764605 >

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- Drbal K, Moertelmaier M, Holzhauser C, Muhammad A, Fuerthbauer E, Howorka S, Hinterberger M, Stockinger H, Schütz GJ: Single-molecule microscopy reveals heterogeneous dynamics of lipid raft components upon TCR engagement. *Int Immunol.* 2007 May; 19(5):675-84. < PMID: 17446208 >
- Tomescu C, Chehimi J, Maino VC, Montaner LJ: NK cell lysis of HIV-1-infected autologous CD4 primary T cells: requirement for IFN-mediated NK activation by plasmacytoid dendritic cells. *J Immunol.* 2007 Aug 15; 179(4):2097-104. < PMID: 17675468 >
- Konjević G, Jović V, Vuletić A, Radulović S, Jelić S, Spuzić I: CD69 on CD56+ NK cells and response to chemoimmunotherapy in metastatic melanoma. *Eur J Clin Invest.* 2007 Nov; 37(11):887-96. < PMID: 17973783 >
- Pitsios C, Dimitrakopoulou A, Tsalimalma K, Kordossis T, Choremi-Papadopoulou H: Expression of CD69 on T-cell subsets in HIV-1 disease. *Scand J Clin Lab Invest.* 2008; 68(3):233-41. < PMID: 17917998 >
- Hrdinka M, Dráber P, Stepánek O, Ormsby T, Otáhal P, Angelisová P, Brdicka T, Paces J, Horejsí V, Drbal K: PRR7 is a transmembrane adaptor protein expressed in activated T cells involved in regulation of T cell receptor signaling and apoptosis. *J Biol Chem.* 2011 Jun 3; 286(22):19617-29. < PMID: 21460222 >

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

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