EXBIO Antibodies

PRODUCT DATA SHEET

PC-552-T100

Monoclonal Antibody to CD69 PerCP (100 tests)

Clone: FN50

Isotype: Mouse IgG1

Specificity: The antibody FN50 recognizes CD69, an lymphocyte early activation marker. HLDA IV; WS Code A 91

Immunogen: anti-μ-stimulated human B lymphocytes

Species Reactivity: Human, Other not determined

Preparation: The purified antibody is conjugated with Peridinin-chlorophyll-protein complex (PerCP) 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 10 μl reagent / 100 μl of whole blood or 10^6 cells in a suspension.
The content of a vial (1 ml) is sufficient for 100 tests.

Expiration: See vial label

Lot Number: See vial label

Background: CD69 (C-type lectin domain family 2 C, CLEC2C, also known as 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.

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

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References:

*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.

*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.

*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.

*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.

*Leukocyte Typing IV., Knapp W. et al. (Eds.), Oxford University Press (1989); p. 293.

*Drbal K, Moertelmaier M, Holzhauser C, Muhammad A, Fuertbauer 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.

*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.

*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.

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