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Monoclonal Antibody to CD69 - FITC

Alternate names: AIM, Activation inducer molecule, BL-AC/P26, C-type lectin domain family 2 member C, EA1, Early T-cell activation antigen p60, Early activation antigen CD69, GP32/28, Leu-23, MLR-3

Catalog No.: AM03132FC-N

Quantity: 100 Tests

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.

Uniprot ID: Q07108

NCBI: NP_001772.1

GeneID: 969

Host / Isotype: Mouse / IgG1

Clone: FN50

Immunogen: Anti-µ-stimulated human B lymphocytes

Format:
State: Liquid purified Ig fraction
Buffer System: PBS containing 15 mM sodium azide and 0.2% (w/v) high-grade protease free Bovine Serum Albumin (BSA) as a stabilizing agent.
Label: FITC – Conjugated with Fluorescein isothiocyanate under optimum conditions. The reagent is free of unconjugated and adjusted for direct use. No reconstitution is necessary

Applications: Flow Cytometry analysis of human blood cells using 20 ml reagent / 100 ml of whole blood or 10e6 cells in a suspension.
The content of a vial (2 ml) is sufficient for 100 tests.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: The antibody recognizes CD69, an lymphocyte early activation marker detected as a 53 kDa band under nonreducing and as 29 + 32 kDa double band under reducing SDS-PAGE conditions.
Species: Human.
Other species not tested.

Storage: Store the antibody at 2 - 8 °C. DO NOT FREEZE! This product is photosensitive and should be protected from light.
Shelf life: one year from despatch.

General Readings: 1. López-Cabrera M, Santis AG, Fernández-Ruiz E, Blacher R, Esch F, Sánchez-Mateos P, et al. 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. PubMed PMID: 8340758.
2. 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. PubMed PMID: 9764605.
3. 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. PubMed PMID: 17917998.
4. Leukocyte Typing IV., Knapp W. et al. (Eds.), Oxford University Press (1989); p. 293.
5. Drbal K, Moertelmaier M, Holzhauser C, Muhammad A, Fuertbauer E, Howorka S, et al. Single-molecule microscopy reveals heterogeneous dynamics of lipid raft components upon TCR engagement. Int Immunol. 2007 May;19(5):675-84. Epub 2007 Apr 19. PubMed PMID: 17446208.
6. Hrdinka M, Dráber P, Stepánek O, Ormsby T, Otáhal P, Angelisová P, et al. 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. doi: 10.1074/jbc.M110.175117. Epub 2011 Apr 1. PubMed PMID: 21460222.

Pictures:

Surface staining of human peripheral blood using anti-CD69 antibody (clone FN50) after overnight activation of T cells by anti-CD3 (clone MEM-57).