## **Product Data Sheet**

## PerCP/Cyanine5.5 anti-human CD69

| Catalog # / Size:     | 2154625 / 25 tests<br>2154630 / 100 tests                                                                                                                                                                            |                                                              |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| Clone:                | FN50                                                                                                                                                                                                                 | ikk                                                          |
| Isotype:              | Mouse IgG1, к                                                                                                                                                                                                        | Equipped and the cell Number 100 101 102 103 104             |
| <b>Reactivity:</b>    | Human                                                                                                                                                                                                                |                                                              |
| Preparation:          | The antibody was purified by affinity<br>chromatography, and conjugated with<br>PerCP/Cyanine5.5 under optimal<br>conditions. The solution is free of<br>unconjugated PerCP/Cyanine5.5 and<br>unconjugated antibody. |                                                              |
| Formulation:          | Phosphate-buffered solution, pH 7.2,<br>containing 0.09% sodium azide and<br>0.2% (w/v) BSA (origin USA).                                                                                                            | PMA+ionomycin-stimulated (5<br>hours) human peripheral blood |
| Workshop<br>Number:   | IV A91                                                                                                                                                                                                               | lymphocytes stained with FN50<br>PerCP/Cy5.5                 |
| <b>Concentration:</b> | Lot-specific                                                                                                                                                                                                         |                                                              |

## **Applications:**

| Applications:              | Flow Cytometry                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Recommended<br>Usage:      | Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 $\mu$ l per million cells or 5 $\mu$ l per 100 $\mu$ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
|                            | * PerCP/Cyanine5.5 has a maximum absorption of 482 nm and 564 nm and a maximun emission of 690 nm.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
| Application<br>Notes:      | Additional reported applications (for the relevant formats) include:<br>immunohistochemical staining of acetone-fixed frozen tissue sections2 and<br>immunofluorescence microscopy3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| Application<br>References: | <ol> <li>Schlossman S, <i>et al.</i> Eds. 1995. Leucocyte Typing V. Oxford University Press.<br/>New York.</li> <li>Testi R, <i>et al.</i> 1994. <i>Immunol. Today</i> 15:479.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| Description:               | CD69 is a 27-33 kD type II transmembrane protein also known as activation<br>inducer molecule (AIM), very early activation antigen (VEA), and MLR3. It is a<br>member of the C-type lectin family, expressed as a disulfide-linked homodimer.<br>Other members of this receptor family include NKG2, NKR-P1 CD94, and Ly49.<br>CD69 is transiently expressed on activated leukocytes including T cells,<br>thymocytes, B cells, NK cells, neutrophils, and eosinophils. CD69 is constitutively<br>expressed by a subset of medullary mature thymocytes, platelets, mantle B cells,<br>and certain CD4 <sup>+</sup> T cells in germinal centers of normal lymph nodes. CD69 is<br>involved in early events of lymphocyte, monocyte, and platelet activation, and<br>has a functional role in redirected lysis mediated by activated NK cells. |  |
| Antigen<br>References:     | 1. Schlossman S, <i>et al.</i> Eds. 1995. Leucocyte Typing V. Oxford University Press.<br>New York.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |

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