InnoCyto Inc.
15375 Barranca Pkwy, Suite I-103
Irvine, CA 92618

Technical Data Sheet

iF647 Anti-Human CD69

Catalog Number: 101903, 101904
Size: 25 tests, 100 tests
Target Name: CD69, Very Early Activation Antigent (VEA)
Regulatory Status: RUO

Product Details

Clone: FN50
Application: FC
Reactivity: Human
Format: iF647
Isotype: Mouse IgG1
Antibody Type: Monoclonal
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA
Protein Concentration: Supplied at a lot-specific concentration.
Storage&Handling: The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Recommended Usage: For flow cytometric staining, it is recommended to use 5 uL of this reagent per 0.5-1.0 million cells in a 100 µL volume. Optimal reagent performance should be determined by titration for each specific application.
Excitation Laser: Red Laser (633 nm)
Release Date: Dec-25

Background Information

CD69 (also known as CLEC2C, VEA, AIM, EA1, MLR3, gp34/28) is a type II transmembrane C-type lectin glycoprotein that forms a ~60 kDa disulfide-linked homodimer. The mature human protein consists of a 40-amino-acid cytoplasmic domain, a 21-amino-acid transmembrane segment, and a 138-amino-acid extracellular domain containing a C-type lectin domain, sharing ~57% sequence identity with mouse and rat CD69. CD69 is rapidly upregulated on activated immune cells, including CD4+ and CD8+ T cells, NK cells, NKT cells, ?? T cells, B cells, dendritic cells, neutrophils, and a subset of thymocytes and platelets. It functions as an early activation marker, mediates T cell differentiation, immune cell trafficking, and homing of CD4+ T cells and plasmablasts to bone marrow, while inhibiting migration of dermal dendritic cells to lymph nodes.

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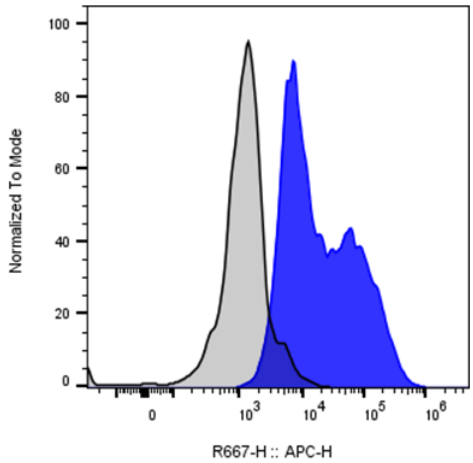

Anti-human CD3 and Anti-Human CD28 stimulated human peripheral blood lymphocytes was stained with iF647 Anti-Human CD69 clone FN50 (color-filled histogram) or an isotype control (gray histogram).