

Technical Data Sheet

Anti-Human CD69

Catalog Number: 101901, 101902

Size: 100 ug, 500 ug

Target Name: CD69, Very Early Activation Antigen (VEA)

Regulatory Status: RUO

Product Details

Clone: FN50

Application: FC, IHC-F

Reactivity: Human

Format: Purified

Isotype: Mouse IgG1

Antibody Type: Monoclonal

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide

Protein Concentration: 0.5 mg/mL

Storage&Handling: The antibody solution should be stored between 2°C and 8°C

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.