Mouse monoclonal antibody anti human GpVI, purified

Clone
1G5

Isotype
IgG2a, Kappa.

Immunogen
Recombinant human Glycoprotein VI (GpVI) ligand-binding ectodomain (residues 21-234).

Specificity
This antibody recognizes the human Glycoprotein VI (GpVI) (1). GpVI is a 62 kDa type 1 transmembrane receptor belonging to the immunoglobulin superfamily, and noncovalently associated with the signal-transducing FcRγ chain. GpVI is a major collagen receptor that plays a crucial role in the collagen-induced activation and aggregation of platelets. As well as collagen, other ligands such as collagen-related peptide (CRP) and snake venom protein (convulxin) can bind to the extracellular region of GpVI causing ectodomain shedding (2). This process is tightly regulated by a metalloproteinase, most likely ADAM10, providing a mechanism for the modulation of platelet responsiveness. Most GpVI is maintained in a monomeric form on resting platelets. GpVI dimerization is a cAMP-controlled active process that primes platelet interaction with fibrillar collagen (3).

Application
Flow Cytometry.

Form
Purified immunoglobulin in PBS-BSA 0.1%, pH 7.2, liquid, 1mL.

Size
0.1 mg
Sufficient for 500 tests within PLATELET Calibrator technology

Suggested amount
Quantitative flow cytometry: follow the package insert of PLATELET Calibrator kit (BioCytex ref. 7011).

Preservative
Sodium azide < 0.1%.

Storage
As delivered at +2-8°C until expiration date. After opening, aliquote contents and freeze at -20°C. Avoid repeated freezing and thawing.

References

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