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DATA SHEET

Anti-GpVI

(Cat# 5131-P)

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	1. Al-Tamimi M. <i>et al.</i> , Platelets 2009, 20(2), 75-82. 2. Gardiner E. <i>et al.</i> , J Thromb Haemost. 2007, 5,1530-1537 3. Loyau S. <i>et al.</i> , ATVB 2012, 32, 778-785.
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