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## DATA SHEET

# Anti-GpVI

(Cat# 5131-P)

**MOUSE MONOCLONAL ANTIBODY ANTI HUMAN GpVI, PURIFIED**

<b>Clone</b>	1G5
<b>Isotype</b>	IgG2a, Kappa.
<b>Immunogen</b>	Recombinant human Glycoprotein VI (GpVI) ligand-binding ectodomain (residues 21-234).
<b>Specificity</b>	This antibody recognizes the human Glycoprotein VI (GpVI) <sup>(1)</sup> . GpVI is a 62 kDa type 1 transmembrane receptor belonging to the immunoglobulin superfamily, and noncovalently associated with the signal-transducing FcR $\gamma$ 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 <sup>(2)</sup> . 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 <sup>(3)</sup> .
<b>Application</b>	Flow Cytometry.
<b>Form</b>	Purified immunoglobulin in PBS-BSA 0.1%, pH 7.2, liquid, 1mL.
<b>Size</b>	0.1 mg Sufficient for 500 tests within PLATELET Calibrator technology
<b>Suggested amount</b>	Quantitative flow cytometry : follow the package insert of PLATELET Calibrator kit (BioCytex ref. 7011).
<b>Preservative</b>	Sodium azide < 0.1%.
<b>Storage</b>	As delivered at +2-8°C until expiration date. After opening, aliquote contents and freeze at -20°C. Avoid repeated freezing and thawing.
<b>References</b>	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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