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DATA SHEET

Anti-GpVI PE

(Cat# 5131-PE100T)

MOUSE MONOCLONAL ANTIBODY ANTI HUMAN GpVI, R-PE CONJUGATED

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	R-Phycoerythrin conjugated purified immunoglobulin in PBS-BSA 0.1%, pH 7.2, liquid, 2 mL.
Size	100 tests, ready for use.
Suggested amount	20 µL/test per 10^6 platelets in 100 µL sample.
Preservative	Sodium azide < 0.1%.
Storage	The conjugated antibody should be stored in the dark at +2-8°C until expiration date. Do not freeze.
References	1. Al-Tamimi M. *et al.*, Platelets 2009, 20(2), 75-82. 2. Gardiner E. *et al.*, J Thromb Haemost. 2007, 5,1530-1537. 3. Loyau S. *et al.*, ATVB 2012, 32, 778-785. 4. Qiao J. *et al.*, Blood 2013, 121:8, 1479-81.
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