

MAb anti-Human GPVI

NEW

The only commercially available
monoclonal antibodies
anti-Human GPVI



Stago

MAb anti-Human GPVI

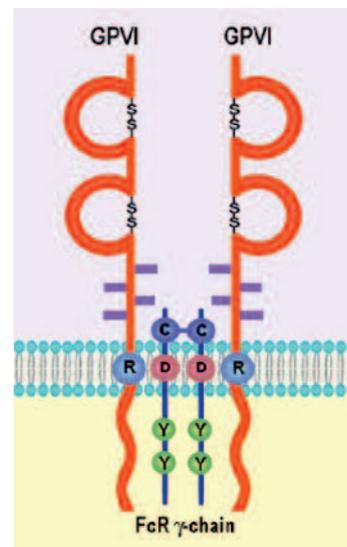
BACKGROUND

Glycoprotein VI (GPVI) is a ~62-kDa type 1 transmembrane receptor that belongs to the immunoglobulin superfamily and is noncovalently associated with the signal-transducing FcR γ chain.

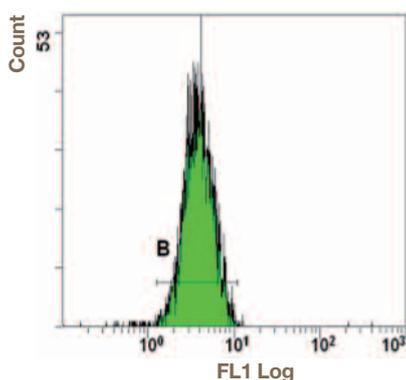
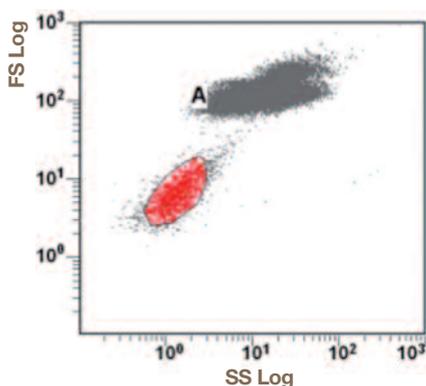
GPVI glycoprotein is a major collagen receptor that plays a crucial role in the collagen-induced activation and aggregation of platelets.

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 GPVI shedding¹. 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 and GPVI dimerization is an active process that primes platelet interaction with fibrillar collagen and is controlled by cAMP².



Thromb Res 2004, 114:221-233



APPLICATION

- Using quantitative flow cytometry (PLATELET Calibrator kit, Cat.Nr. 00457), a density of around **5,000 GPVI** molecules/platelet has been found.
- GPVI-PE may be used to analyse surface expression of human platelet GPVI³.

FORMAT

Product description	Cat. Nr.	Packaging
Anti-human GPVI purified*	01083	0.1 mg/mL, 1 mL
Anti-human GPVI PE conjugated*	01084	100 tests, 2 mL

* For Research Use Only. Not for use in diagnostic procedures
Exclusive licence with Monash University (Clone 1G5, murine MAb⁴)

BIBLIOGRAPHY

1. Gardiner E. et al., J Thromb Haemost. 2007, 5:1530-7
2. Loyau S. et al., ATVB 2012, 32:778-785.
3. Qiao J. et al., Blood 2013, 121:8, 1479-81.
4. Al-Tamimi M. et al., Platelets 2009, 20:2, 75-82.

Manufactured by



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At the Heart of Haemostasis

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