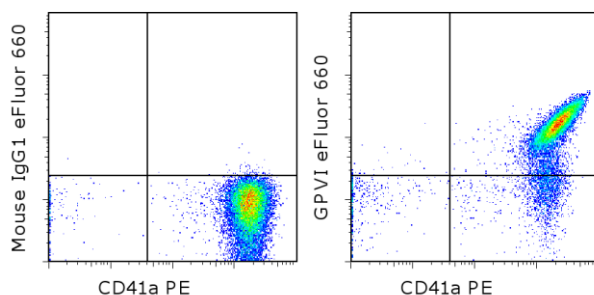


## Anti-Human Glycoprotein VI eFluor® 660

**Catalog Number:** 50-9813

**Also known as:** GPVI, GP6

**RUO: For Research Use Only. Not for use in diagnostic procedures.**



Staining of normal human platelets with Anti-Human CD41a PE (cat. 12-0419) and Mouse IgG1 K Isotype Control eFluor® 660 (cat. 50-4714) (left) or Anti-Human Glycoprotein VI eFluor® 660 (right). Total viable cells were used for analysis.

### Product Information

**Contents:** Anti-Human Glycoprotein VI eFluor® 660



**Catalog Number:** 50-9813

**Clone:** HY101

**Concentration:** 5 µL (0.25 µg)/test

**Host/Isotype:** Mouse IgG1, kappa

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

**Temperature Limitation:** Store at 2-8°C. Do not freeze. Light-sensitive material.

**Batch Code:** Refer to vial

**Use By:** Refer to vial

**Contains sodium azide**



### Description

The HY101 monoclonal antibody reacts with the glycoprotein VI (GPVI), a 62-kDa type-I transmembrane glycoprotein that is expressed on mature megakaryotes and platelets. GPVI associates with the Fc receptor (FcR) gamma-chain to form a high affinity receptor for collagen. GPVI has also been reported to bind convulxin (Cvx). Phosphorylation of the ITAMs present on the FcR gamma-chain leads to recruitment of Src family kinases and activation of downstream signal transduction. GPVI has been reported to play a critical role in platelet activation and aggregation.

### Applications Reported

This HY101 antibody has been reported for use in flow cytometric analysis.

### Applications Tested

This HY101 antibody has been pre-titrated and tested by flow cytometric analysis of normal human platelets. This can be used at 5 µL (0.25 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test.

**eFluor® 660 is a replacement for Alexa Fluor® 647. eFluor® 660 emits at 659 nm and is excited with the red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochrome.**

### References

Hermans C, Wittevrongel C, Thys C, Smethurst PA, Van Geet C, Freson K. A compound heterozygous mutation in glycoprotein VI in a patient with a bleeding disorder. J Thromb Haemost. 2009 Aug;7(8):1356-63. (**HY101**, FC)

Best D, Senis YA, Jarvis GE, Eagleton HJ, Roberts DJ, Saito T, Jung SM, Moroi M, Harrison P, Green FR, Watson SP. GPVI levels in platelets: relationship to platelet function at high shear. Blood. 2003 Oct 15;102 (8):2811-8.

Moroi M, Jung SM. Platelet glycoprotein VI: its structure and function. Thromb Res. 2004;114(4):221-33. Review.

Locke D, Liu C, Peng X, Chen H, Kahn ML. Fc Rgamma - independent signaling by the platelet collagen receptor

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glycoprotein VI. J Biol Chem. 2003 Apr 25;278(17):15441-8.

Chen H, Locke D, Liu Y, Liu C, Kahn ML. The platelet receptor GPVI mediates both adhesion and signaling responses to collagen in a receptor density-dependent fashion. J Biol Chem. 2002 Jan 25;277(4):3011-9. (**HY101**; FC, WB, IP)

### **Related Products**

11-0428 Anti-Human CD42a FITC (GR-P)

12-0419 Anti-Human CD41a PE (HIP8)

50-4714 Mouse IgG1 K Isotype Control eFluor® 660 (P3.6.2.8.1)