**DESCRIPTION**

**Species Reactivity**: Mouse

**Specificity**: Detects mouse GPVI in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human GPVI is observed.

**Source**: Monoclonal Rat IgG<sub>1</sub>, Clone # 784808

**Purification**: Protein A or G purified from hybridoma culture supernatant

**Immunogen**: Mouse myeloma cell line NS0-derived recombinant mouse GPVI Gly<sub>24</sub>-Lys<sub>265</sub>

**Accession #**: P0C191

**Conjugate**: Phycoerythrin

**Excitation Wavelength**: 488 nm

**Emission Wavelength**: 565-605 nm

**Formulation**: Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.

*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.*

**APPLICATIONS**

*Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

<table>
<thead>
<tr>
<th>Application</th>
<th>Recommended Concentration</th>
<th>Sample</th>
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<tbody>
<tr>
<td>Flow Cytometry</td>
<td>10 µL/10&lt;sup&gt;6&lt;/sup&gt; cells</td>
<td>See Below</td>
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</table>

**DATA**

**Flow Cytometry**

Detection of GPVI in Mouse Platelets by Flow Cytometry. Mouse platelets were stained with Rat Anti-Mouse GPVI PE-conjugated Monoclonal Antibody (Catalog # FAB6758P, filled histogram) or isotype control antibody (Catalog # IC005P, open histogram). View our protocol for Staining Membrane-associated Proteins.

**PREPARATION AND STORAGE**

**Shipping**: The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage**: Protect from light. Do not freeze.

- 12 months from date of receipt, 2 to 8 °C as supplied.

**BACKGROUND**

GPVI (Platelet Glycoprotein VI), also known as Glycoprotein 5, is a member of the Ig superfamily. It is found on platelets and megakaryocytes, and serves as the main collagen receptor on platelets. Following exposure to subendothelial connective tissue, GPVI binds to a Gly-Pro-(hydroxy)Pro motif on collagen and generates a noncovalent membrane signaling complex with FcR γ-chain. This interaction is stabilized by Integrin α<sub>2</sub>β<sub>1</sub>, followed by activation of PLCγ2 with clot initiation. Mature mouse GPVI is a 292 amino acid (aa) type I transmembrane protein. It possesses a 244 aa extracellular region (aa 22-265) that contains two C2-type Ig-like domains (aa 27-197) and two potential glycosylation sites, plus a 37 aa cytoplasmic tail (aa 287-313). There is one potential splice form that shows a deletion of aa 224-240. Over aa 24-265, mouse GPVI shares 70% and 86% aa identity with human and rat GPVI, respectively.