

#### DESCRIPTION

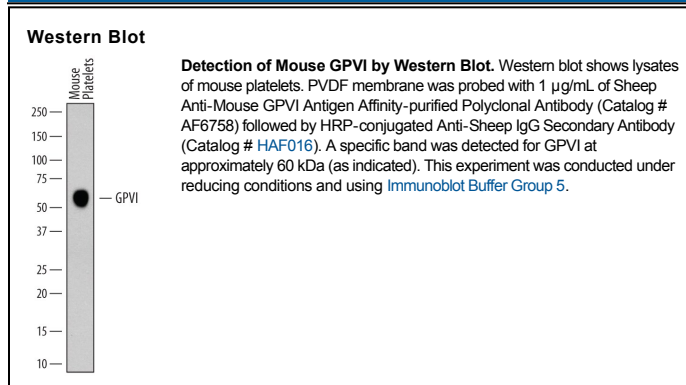
|                           |   |
|---------------------------|---|
| <b>Species Reactivity</b> | Mouse   |
| <b>Specificity</b>        | Detects mouse GPVI in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human GPVI is observed.   |
| <b>Source</b>             | Polyclonal Sheep IgG  |
| <b>Purification</b>       | Antigen Affinity-purified   |
| <b>Immunogen</b>          | Mouse myeloma cell line NS0-derived recombinant mouse GPVI<br>Gly24-Lys265<br>Accession # P0C191  |
| <b>Formulation</b>        | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.<br>*Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS. |

#### 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.

|                     | <b>Recommended Concentration</b> | <b>Sample</b> |
|---------------------|----------------------------------|---------------|
| <b>Western Blot</b> | 1 µg/mL                          | See Below     |

#### DATA



#### PREPARATION AND STORAGE

|                                |  |
|--------------------------------|--|
| <b>Reconstitution</b>          | Sterile PBS to a final concentration of 0.2 mg/mL.   |
| <b>Shipping</b>                | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.<br>*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C   |
| <b>Stability &amp; Storage</b> | <b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul> |

#### BACKGROUND

GPVI (Platelet Glycoprotein VI; also 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 α2β1, 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.