

## DESCRIPTION

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse Glycoprotein V/CD42d in direct ELISAs and Western blots.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant mouse Glycoprotein V/CD42d Gln17-Gly522 Accession # NP_032174
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

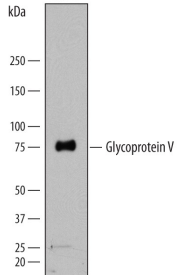
## APPLICATIONS

**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
<b>Immunocytochemistry</b>	5-15 µg/mL	See Below

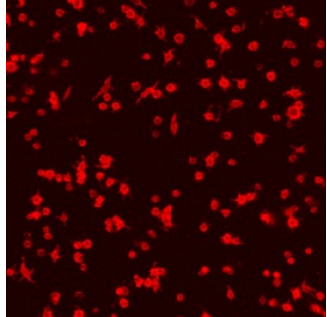
## DATA

**Western Blot**



**Detection of Mouse Glycoprotein V/CD42d by Western Blot.**  
Western blot shows lysates of mouse platelets. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Mouse Glycoprotein V/CD42d Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6990) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). Specific bands were detected for Glycoprotein V/CD42d at approximately 70-80 kDa (as indicated). This experiment was conducted under reducing conditions and using [Immunoblot Buffer Group 1](#).

**Immunocytochemistry**



**Glycoprotein V/CD42d in Mouse Platelets.**  
Glycoprotein V/CD42d was detected in immersion fixed mouse platelets using Sheep Anti-Mouse Glycoprotein V/CD42d Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6990) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Sheep IgG Secondary Antibody (red; Catalog # NL010). View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

## 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. *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

GP-V (platelet glycoprotein V; also CD42d) is a 78-88 kDa member of the leucine-rich (LR) repeat family of proteins. It is expressed on the surface of platelets where it noncovalently interacts with three additional proteins to form a heteromeric complex that serves as a receptor for both thrombin and von Willebrand factor. In addition, GP-V is normally a receptor for collagen. Following receptor complex activation due to thrombin cleavage of GP-V, the collagen-binding activity of GP-V is lost, limiting thrombus growth at sites of clot formation. Mature mouse GP-V is a 551 amino acid (aa) type I transmembrane glycoprotein. In its 506 aa extracellular domain (aa 17-522), GP-V contains 16 LR repeats (aa 17-474), and terminates with a short 24 aa cytoplasmic tail. Based on human, mouse GP-V might be naturally cleaved by thrombin and ADAM17, generating soluble fragments that range from 70-82 kDa in size. Over aa 17-522, mouse GP-V shares 83% and 70% aa sequence identity with rat and human GP-V, respectively.