Mouse Glycoprotein V/CD42d Antibody
Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF6990

DESCRIPTION
Species Reactivity Mouse
Specificity Detects mouse Glycoprotein V/CD42d in direct ELISAs and Western blots.
Source Polyclonal Sheep IgG
Purification Antigen Affinity-purified
Immunogen Mouse myeloma cell line NS0-derived recombinant mouse Glycoprotein V/CD42d
Gln17-Gly522
Accession # NP_032174
Formulation 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.
Recommended Concentration Sample
Western Blot 1 μg/mL See Below
Immunocytochemistry 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
Reconstitution Sterile PBS to a final concentration of 0.2 mg/mL.
Shipping 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.
Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.