

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
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.

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

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.

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