

**Datasheet for 600-401-BN1****GPVI Antibody****Overview**

|                      |                                           |
|----------------------|-------------------------------------------|
| <b>Description:</b>  | Anti-GPVI (RABBIT) Antibody - 600-401-BN1 |
| <b>Item No.:</b>     | 600-401-BN1                               |
| <b>Size:</b>         | 100 µg                                    |
| <b>Applications:</b> | ELISA, IF, IHC, WB                        |
| <b>Reactivity:</b>   | Human, Mouse, Rat                         |
| <b>Host Species:</b> | Rabbit                                    |

**Product Details**

**Background:** Glycoprotein VI (GP6) is a 58kD platelet membrane glycoprotein that plays a crucial role in the collagen-induced activation and aggregation of platelets. It is uniquely expressed by cells of the megakaryocytic/platelet lineage, and is a member of the immunoglobulin gene superfamily, closely related to Fc receptor gamma chain (FcRgamma) and natural killer receptors. Glycoprotein VI plays a key role in platelet procoagulant activity and subsequent thrombin and fibrin formation. This procoagulant function may contribute to arterial and venous thrombus formation. The signaling pathway involves the FcRgamma, the Src kinases (likely Fyn/Lyn), the adapter protein LAT and leads to the activation of phospholipase C gamma2. GPVI deficiency can result in bleeding disorders. Further study should reveal the extent of GPVI involvement in thrombotic disease and allow the development of alternative anti-thrombotic compounds.

|                      |                                                                              |
|----------------------|------------------------------------------------------------------------------|
| <b>Synonyms:</b>     | GPVI Antibody, GPIV, GPVI, BDPLT11, Platelet glycoprotein VI, Glycoprotein 6 |
| <b>Host Species:</b> | Rabbit                                                                       |
| <b>Clonality:</b>    | Polyclonal                                                                   |
| <b>Format:</b>       | IgG                                                                          |

**Target Details**

|                        |                    |
|------------------------|--------------------|
| <b>Gene Name:</b>      | GP6                |
| <b>Reactivity:</b>     | Human, Mouse, Rat  |
| <b>Immunogen Type:</b> | Conjugated Peptide |

|                            |                                                                                                                                                                               |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Immunogen:</b>          | Anti-GPVI antibody was prepared from whole rabbit serum produced by repeated immunizations with a 15 amino acid synthetic peptide near the C-terminus of the human GPVI.      |
| <b>Purity/Specificity:</b> | Anti-GPVI Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with GPVI from other sources has not been determined. |
| <b>Relevant Links:</b>     | <ul style="list-style-type: none"><li>• <a href="#">UniProtKB - Q9HCN6</a></li><li>• <a href="#">GeneID - 51206</a></li><li>• <a href="#">NCBI - NP_057447</a></li></ul>      |

## Application Details

|                             |                                                                                                                                                                                                                                                                                          |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tested Applications:</b> | ELISA, IF, IHC, WB                                                                                                                                                                                                                                                                       |
| <b>Application Note:</b>    | Anti-GPVI Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 37 kDa in Western Blots of specific cell lysates and tissues. |
| <b>Assay Dilutions:</b>     | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                                                                          |
| <b>ELISA:</b>               | 1:10,000                                                                                                                                                                                                                                                                                 |
| <b>IF:</b>                  | 20 µg/mL                                                                                                                                                                                                                                                                                 |
| <b>IHC:</b>                 | 10 µg/mL                                                                                                                                                                                                                                                                                 |
| <b>WB:</b>                  | 1 µg/mL                                                                                                                                                                                                                                                                                  |

## Formulation

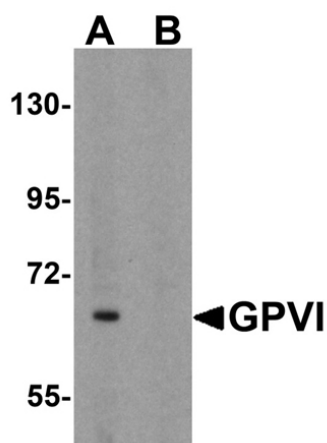
|                        |                                                         |
|------------------------|---------------------------------------------------------|
| <b>Physical State:</b> | Liquid (sterile filtered)                               |
| <b>Concentration:</b>  | 1 mg/mL by UV absorbance at 280 nm                      |
| <b>Buffer:</b>         | 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2 |
| <b>Preservative:</b>   | 0.02% (w/v) Sodium Azide                                |
| <b>Stabilizer:</b>     | None                                                    |

## Shipping & Handling

|                            |                                                                                                                |
|----------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Shipping Condition:</b> | Wet Ice                                                                                                        |
| <b>Storage Condition:</b>  | Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures. |

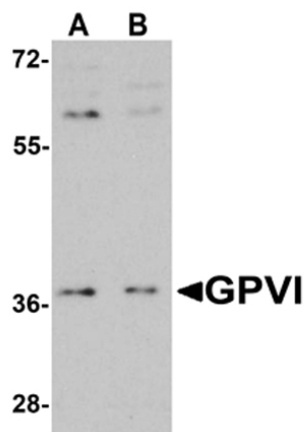
**Expiration:** Expiration date is one (1) year from date of receipt.

## Images



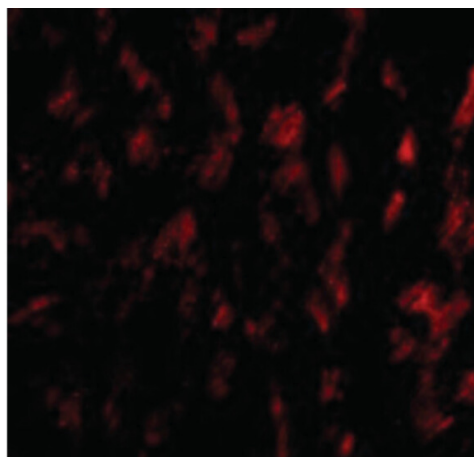
### Western Blot

Western Blot results of Anti-GPVI Antibody. Lane A: K562 cell lysate with GPVI antibody at 1 µg/mL in the absence of blocking peptide. Lane B: K562 cell lysate with GPVI antibody at 1 µg/mL in the presence of blocking peptide. Predicted: 68 kDa; Observed: 67 kDa.

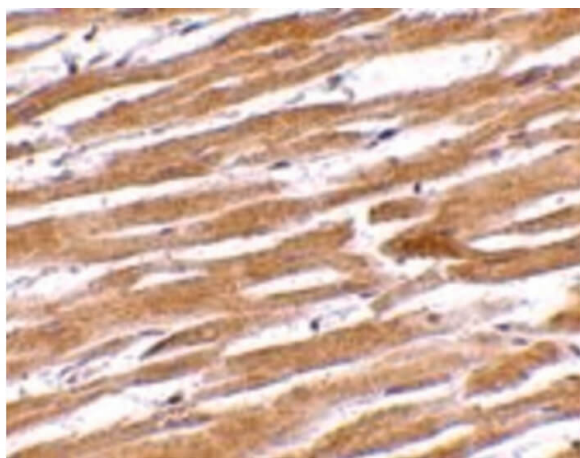


### Western Blot

Western blot results of Anti-GPVI Antibody. Lane A: HeLa Lysate. Lane B: Jurkat. Primary Antibody: GPVI antibody at 1 µg/mL.

**Immunofluorescence Microscopy**

Immunofluorescence Microscopy of GPVI antibody. Tissue: Human heart cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: GPVI antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Staining: GPVI as a red fluorescent signal.

**Immunohistochemistry**

Immunohistochemistry of GPVI antibody. Tissue: Human heart tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: GPVI antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: GPVI is nuclear and occasionally cytoplasmic. Staining: GPVI as a precipitated red signal with hematoxylin purple nuclear counterstain.

**Disclaimer**

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.