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Datasheet for 600-401-BN1

GPVI Antibody

Overview

Description:	Anti-GPVI (RABBIT) Antibody - 600-401-BN1
Item No.:	600-401-BN1
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	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.
Synonyms:	GPVI Antibody, GPIV, GPVI, BDPLT11, Platelet glycoprotein VI, Glycoprotein 6
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	GP6
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	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.
Purity/Specificity:	Anti-GPVI Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with GPVI from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9HCN6 • GeneID - 51206 • NCBI - NP_057447

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
IF:	20 µg/mL
IHC:	10 µg/mL
WB:	1 µg/mL

Formulation

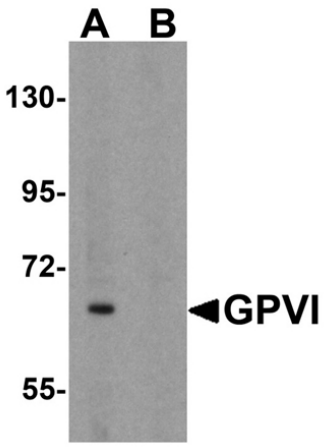
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

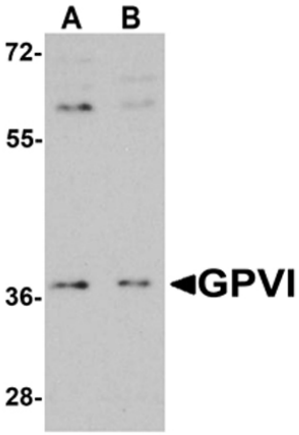
Shipping Condition:	Wet Ice
Storage Condition:	Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.

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

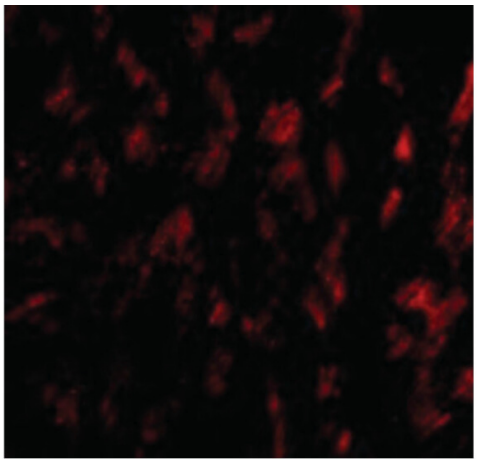
Images



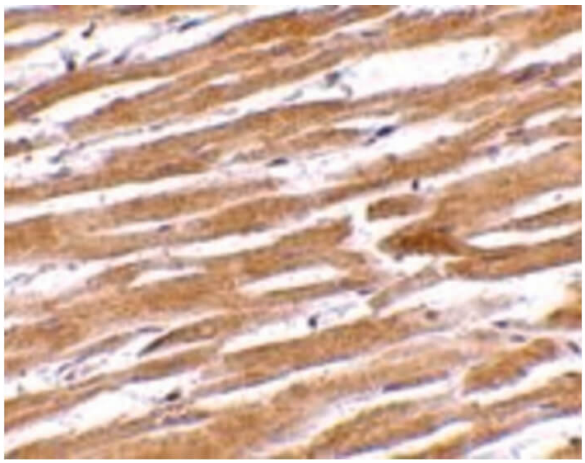
Western Blot
Western Blot results of Anti-GVPI Antibody. Lane A: K562 cell lysate with GPVI antibody at 1 µg/mL in the absence of blocking peptide. Lane B: K562 cell lysate with GPVI antibody at 1 µg/mL in the presence of blocking peptide. Predicted: 68 kDa; Observed: 67 kDa.



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.

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