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# GPVI Antibody
**Catalog # ASC10753**

## Specification

### GPVI Antibody - Product Information

| | |
|---|---|
| Application | **WB, E** |
| Primary Accession | Q9HCN6 |
| Other Accession | NP_057447, 143770755 |
| Reactivity | **Human, Mouse, Rat** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Isotype | **IgG** |
| Application Notes | **GPVI antibody can be used for detection of GPVI by Western blot at 1 µg/mL.** |

### GPVI Antibody - Additional Information

| | |
|---|---|
| Gene ID | **51206** |

**Target/Specificity**
GP6;

**Reconstitution & Storage**
GPVI antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

**Precautions**
GPVI Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

### GPVI Antibody - Protein Information

**Name** GP6 (HGNC:14388)

**Function**
Collagen receptor involved in collagen-induced platelet adhesion and activation. 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 FcR gamma-chain, the Src kinases (likely FYN or LYN) and SYK, the adapter protein LAT and leads to the activation of PLCG2.

**Cellular Location**
[Isoform 1]: Cell membrane; Single-pass membrane protein

**Tissue Location**
Megakaryocytes and platelets.

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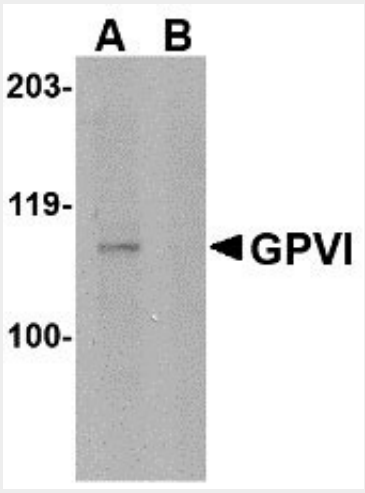
## GPVI Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## GPVI Antibody - Images




Western blot analysis of GPVI in A-20 lysate with GPVI antibody at 1 µg/mL in either the absence or (B) the presence of blocking peptide.

## GPVI Antibody - Background

GPVI Antibody: 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.

## GPVI Antibody - References

Jarvis GE, Atkinson BT, Snell DC, et al. Distinct roles of GPVI and integrin alpha(2) beta(1) in platelet shape change and aggregation induced by different collagens. Br. J. Pharmacol.2002; 137:107-17.
Inoue O, Suzuki-Inoue K, Dean WL, et al. Integrin alpha2beta1 mediates outside-in regulation of platelet spreading on collagen through activation of Src kinases and PLCgamma2. J. Cell Biol.2003;160:769-80.
Clemetson JM, Polgar J, Magnenat E, et al. The platelet collagen receptor glycoprotein VI is a

member of the immunoglobulin superfamily closely related to FcαR and the natural killer receptors. J Biol. Chem.1999; 274:29019-24.
Jandrot-Perrus M, Busfield S, Lagrue AH, et al. Cloning, characterization, and functional studies of human and mouse glycoprotein VI: a platelet-specific collagen receptor from the immunoglobulin superfamily. Blood2000; 96:1798-807.