

# Glycoprotein VI Rabbit pAb

Glycoprotein VI Rabbit pAb Catalog # AP59416

#### **Product Information**

Application WB

Primary Accession Q9HCN6

**Reactivity** Human, Mouse

HostRabbitClonalityPolyclonalCalculated MW36866Physical StateLiquid

Immunogen KLH conjugated synthetic peptide derived from human GPVI/Glycoprotein VI

Epitope Specificity 121-220/339

**Isotype** IgG

**Purity** affinity purified by Protein A

**Buffer** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

**SUBCELLULAR LOCATION** Isoform 1: Cell membrane; Single-pass membrane protein. Isoform 2: Cell

membrane; Single-pass membrane protein.

**SIMILARITY** Contains 2 Ig-like C2-type (immunoglobulin-like) domains.

**SUBUNIT** Associated with Fc receptor gamma chain. The GPVI-FcRgamma complex is

associated with the Src kinase family Fyn and Lyn.

**Post-translational** N-linked glycosylation at Asn-92 is not required for the cell surface

modifications expression, but contributes to maximal adhesion to type I collagen, collagen-related peptide (CRP), and, to a lesser extent, to the snake venom

C-type lectin convulxin (CVX).

**DISEASE** Defects in GP6 are the cause of bleeding disorder platelet-type 11 (BDPLT11)

[MIM:614201]. BDPLT11 is a mild to moderate bleeding disorder caused by defective platelet activation and aggregation in response to collagen.

**Important Note** This product as supplied is intended for research use only, not for use in

human, therapeutic or diagnostic applications.

**Background Descriptions** This gene encodes a platelet membrane glycoprotein of the immunoglobulin

superfamily. The encoded protein is a receptor for collagen and plays a critical role in collagen-induced platelet aggregation and thrombus formation. The encoded protein forms a complex with the Fc receptor gamma-chain that initiates the platelet activation signaling cascade upon collagen binding. Mutations in this gene are a cause of platelet-type bleeding disorder-11 (BDPLT11). Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2011].

#### **Additional Information**

**Gene ID** 51206

Other Names Platelet glycoprotein VI, GPVI, Glycoprotein 6, GP6 (<u>HGNC:14388</u>)

**Target/Specificity** Megakaryocytes and platelets.

**Dilution** WB=1:500-2000

**Storage** Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

#### **Protein Information**

Name GP6 ( <u>HGNC:14388</u>)

**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.

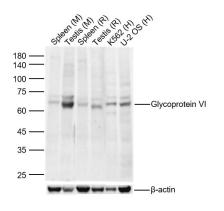
**Cellular Location** [Isoform 1]: Cell membrane; Single-pass membrane protein

**Tissue Location** Megakaryocytes and platelets.

### **Background**

This gene encodes a platelet membrane glycoprotein of the immunoglobulin superfamily. The encoded protein is a receptor for collagen and plays a critical role in collagen-induced platelet aggregation and thrombus formation. The encoded protein forms a complex with the Fc receptor gamma-chain that initiates the platelet activation signaling cascade upon collagen binding. Mutations in this gene are a cause of platelet-type bleeding disorder-11 (BDPLT11). Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2011].

## **Images**



Sample:

Lane 1: Mouse Spleen Lysates
Lane 2: Mouse Testis Lysates
Lane 3: Rat Spleen Lysates
Lane 4: Rat Testis Lysates
Lane 5: Human K562 cell Lysates
Lane 6: Human U-2 OS cell Lysates

Primary: Anti-Glycoprotein VI (AP59416) at 1/1000

dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000

dilution

Predicted band size: 35kDa Observed band size: 65kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.