

Glycoprotein VI Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP59416

Specification

Glycoprotein VI Polyclonal Antibody - Product Information

Application WB, IHC-P, IHC-F, IF, ICC, E

Primary Accession <u>Q9HCN6</u>

Reactivity Rat, Pig, Bovine Host Rabbit

Clonality Polyclonal
Calculated MW 35 KDa
Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived

laG

from human GPVI/Glycoprotein VI

Epitope Specificity 121-220/339

Isotype 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 modifications

N-linked glycosylation at Asn-92 is not required for the cell surface expression

required for the cell surface 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.
This product as supplied is intended for

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 RefSeg, Dec 2011].

Glycoprotein VI Polyclonal Antibody - Additional Information

Gene ID 51206

Other Names

Platelet glycoprotein VI, GPVI, Glycoprotein 6, GP6 (HGNC:14388)

Target/Specificity

Megakaryocytes and platelets.

Dilution

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 < span \ class = "dilution_WB">WB~\sim 1:1000 < /span> < br \> < span \ class = "dilution_IHC-P">IHC-P~\sim N/A < /span> < br \> < span \ class = "dilution_IHC-F">IHC-F~\sim N/A < /span> < br \> < span \ class = "dilution_IF">IF~\sim 1:50 \sim 200 < /span> < br \> < span \ class = "dilution_ICC">ICC~\sim N/A < /span> < br \> < span \ class = "dilution_E">E~\sim N/A < /span> < br \> < span \ class = "dilution_E">E~\sim N/A < /span> < br \> < span \ class = "dilution_E">E~\sim N/A < /span> < br \> < span \ class = "dilution_E">E~\sim N/A < /span> < br \> < span \ class = "dilution_E">E~\sim N/A < /span> < br \> < span \ class = "dilution_E">E~\sim N/A < /span> < br \> < span \ class = "dilution_E">E~\sim N/A < /span> < br \> < span \ class = "dilution_E">E~\ D_{\text{N}} \ D_{\text{N
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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.

Glycoprotein VI Polyclonal Antibody - 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

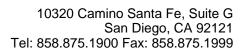
Tissue Location

Megakaryocytes and platelets.

Glycoprotein VI Polyclonal Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot





• <u>Immunohistochemistry</u>

- <u>Immunofluorescence</u>
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

Glycoprotein VI Polyclonal Antibody - Images