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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	Q9HCN6
Reactivity	**Rat, Pig, Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**35 KDa**
Physical State	**Liquid**
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 modifications	**N-linked glycosylation at Asn-92 is not 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.**
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].

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
WB~~1:1000<br \>IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

Format
0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage
Store at -20 ℃ 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 ℃.

Glycoprotein VI Polyclonal 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.

Glycoprotein VI Polyclonal 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

Glycoprotein VI Polyclonal Antibody - Images