

Datasheet

GP6 polyclonal antibody

Catalog Number: PAB13395

Regulation Status: For research use only (RUO)

Product Description: Rabbit polyclonal antibody raised against synthetic peptide of GP6.

Immunogen: A synthetic peptide corresponding to internal region 18 amino acids of human GP6.

Host: Rabbit

Reactivity: Human, Mouse, Rat

Applications: WB-Ti

(See our web site product page for detailed applications information)

Protocols: See our web site at

<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Form: Liquid

Recommend Usage: Western Blot (1 ug/mL)

The optimal working dilution should be determined by the end user.

Storage Buffer: In PBS (0.02% sodium azide)

Storage Instruction: Store at 4°C for three months. For long term storage store at -20°C.

Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 51206

Gene Symbol: GP6

Gene Alias: GPIV, GPVI, MGC138168

Gene Summary: Glycoprotein VI (GP6) is a 58-kD platelet membrane glycoprotein that plays a crucial role in the collagen-induced activation and aggregation of platelets. Upon injury to the vessel wall and subsequent damage to the endothelial lining, exposure of the subendothelial matrix to blood flow results in deposition of platelets. Collagen fibers are the most thrombogenic macromolecular components of the extracellular matrix,

with collagen types I, III, and VI being the major forms found in blood vessels. Platelet interaction with collagen occurs as a 2-step procedure: (1) the initial adhesion to collagen is followed by (2) an activation step leading to platelet secretion, recruitment of additional platelets, and aggregation. In physiologic conditions, the resulting platelet plug is the initial hemostatic event limiting blood loss. However, exposure of collagen after rupture of atherosclerotic plaques is a major stimulus of thrombus formation associated with myocardial infarction or stroke (Jandrot-Perrus et al., 2000 [PubMed 10961879]).[supplied by OMIM]

References:

1. Integrin $\alpha 2 \beta 1$ mediates outside-in regulation of platelet spreading on collagen through activation of Src kinases and PLC γ . Inoue O, Suzuki-Inoue K, Dean WL, Frampton J, Watson SP. J Cell Biol. 2003 Mar 3;160(5):769-80.
2. Cloning, characterization, and functional studies of human and mouse glycoprotein VI: a platelet-specific collagen receptor from the immunoglobulin superfamily. Jandrot-Perrus M, Busfield S, Lagrue AH, Xiong X, Debili N, Chickering T, Le Couedic JP, Goodearl A, Dussault B, Fraser C, Vainchenker W, Villeval JL. Blood. 2000 Sep 1;96(5):1798-807.
3. The platelet collagen receptor glycoprotein VI is a member of the immunoglobulin superfamily closely related to Fc α R and the natural killer receptors. Clemetson JM, Polgar J, Magnenat E, Wells TN, Clemetson KJ. J Biol Chem. 1999 Oct 8;274(41):29019-24.