

Product Sheet



QVQ

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Note:

This product has been generated
and purified by Podiceps BV.

Glycoprotein 1b alpha

Catalogue no.: Q114
Clone name: Gp1b-17

Product: VHH directed against human glycoprotein 1b alpha

Target: Glycoprotein 1b alpha (GPIba), also known as CD42, is a transmembrane protein of 145 kDa.¹ Together with GP1b β , GPIX and GPV, it forms the non-covalent GP1b-V-IX complex on megakaryocytes and platelets.² Platelet activation results in clearance of GPIb from the platelet surface followed by a slow reappearance to a normal surface expression level within an hour.³ The GP1b-V-IX complex functions as a receptor for von Willebrand factor, allowing platelet adhesion and platelet plug formation at sites of vascular injury.⁴ Additionally, GP1b contains a binding site for P-selectin, Mac-1, coagulation factor XI and XII, thrombin and high molecular-weight kininogen.⁴ Defects in GP1ba can cause serious bleeding diathesis, accompanied by morphological platelet anomalies. A gain-of-function mutation causes platelet-type von Willebrand disease.⁵

Source: Immunization with and phage-display selection on purified recombinant human GP1ba.
Recombinant monoclonal VHH (Llama glama), purified from HEK293-E 253 cells using Nickel excel Sepharose affinity chromatography.

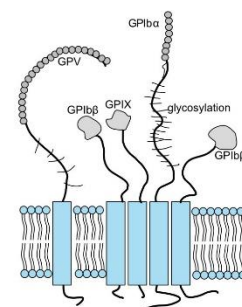
Specificity: Human GPIba.
Gp1b-17 is directed against the N-terminal leucine-rich repeats within GP1ba and interferes with the binding of vWF to GP1ba.

Formulation: Myc-tagged PBS.

Mol. Weight: 14.8 kDa
Ext. Coeff. (ϵ): 19240 M⁻¹ cm⁻¹
A₂₈₀ at 1g/L: 1.3

Storage: Shipped on blue ice. Store at 4 °C or -20 °C (aliquots). Addition of 0.02% sodiumazide is optional.

Applications: ELISA, flow cytometry (FC)



References:

- 1 Lopez et al. (1987) PNAS 84(16):5615-9
- 2 Luo, S-Z. et al. (2007) Blood 109:603
- 3 Han et al. (2003) J Thromb Haemost 1(10):2206-15
- 4 Andrews et al (2003) Int J Biochem Cell Biol 35(8):1170-4
- 5 Ruggeri et al (1980) N Engl J Med 302(19):1047-51