

GPVI Protein, Cynomolgus (HEK293, His)

Cat. No.:	HY-P700732
Synonyms:	GPVI; Gp6; Glycoprotein 6; MGC138168
Species:	Cynomolgus
Source:	HEK293
Accession:	XP_005590417.2 (Q21-N251)
Gene ID:	102118698
Molecular Weight:	50-60 kDa

PROPERTIES

Biological Activity	Immobilized Cynomolgus GPVI, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-GPVI Antibody, hFc Tag with the EC ₅₀ of 5.3ng/ml determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The GPVI protein functions as a collagen receptor crucially involved in mediating collagen-induced platelet adhesion and activation. It plays a pivotal role in platelet procoagulant activity, leading to subsequent thrombin and fibrin formation, thereby contributing to arterial and venous thrombus formation. The signaling pathway involves the FcR gamma-chain, the Src kinases (likely FYN or LYN), SYK, the adapter protein LAT, and culminates in the activation of PLCG2. GPVI is associated with the Fc receptor gamma chain, forming the GPVI:FcRgamma complex that is further linked to the Src kinase family FYN and LYN. Additionally, GPVI interacts with TRAF4 and specifically binds to COL1A1, highlighting its involvement in intricate signaling cascades and its association with collagen molecules, particularly COL1A1, which is integral to its collagen-binding function.
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Caution: Product has not been fully validated for medical applications. For research use only.

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