Murine Anti-GPIbα

Clone GMA-340

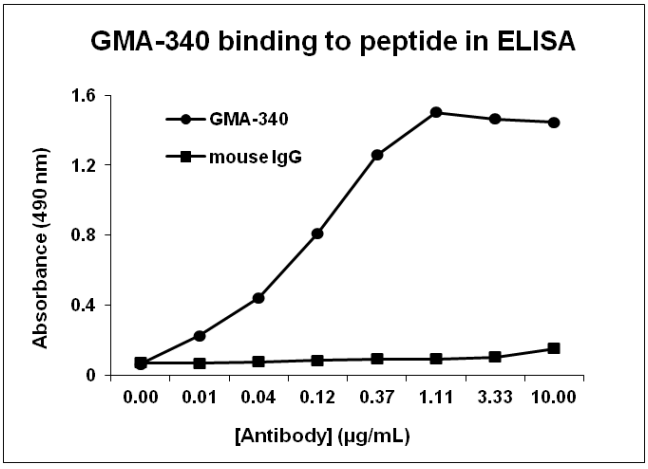
Platelet membrane glycoprotein Ib (GPIbα) is comprised of an α and β subunit linked by disulfide bonds. GPIbα (also known as CD42b) is a 135 kDa membrane protein subunit that binds a variety of adhesive and procoagulant ligands, including von Willebrand factor. Cleavage of GPIbα by the "sheddase" ADAM17 releases the ectodomain glycocalicin into plasma. ADAM17 cleaves GPIbα at Gly464-Val465. Liang *et al.*[1] have shown that the murine monoclonal antibody designated 5G6 (GMA-340) binds the ADAM17 cleavage site and blocks glycocalicin release.

Description

Antibody Source:	Mouse Monoclonal, IgG_1
Antigen Species bound:	Human
Specificity:	ADAM17 cleavage site on GPIbα.[1]
Immunogen:	Human GPIbα peptide (Ac-ELDQPPKLRGVLQGHLESSRNDPFC-amide) conjugated to ovalbumin.[1]

Application

Working Concentration:	Approximately 1-5 µg/ml. Researchers should titer antibody in specific assay.
ELISA:	Binds immobilized human platelet GPIbα and synthetic peptide
Immunoblotting:	Blots under reduced and non-reduced conditions[1]
Inhibition:	Blocks ADAM17 access to cleavage site



Formulation and Storage

Purity:	IgG purified by protein G affinity chromatography from cell culture supernatant
Product Formulation:	Lyophilized from a 1 mg/ml solution in 20 mM NaH_2PO_4 0.15 M NaCl, 1.0% (w/v) mannitol, pH 7.4. Concentration determined by absorbance measurement at 280 nm and using an extinction coefficient of 1.4 ($\varepsilon_{0.1\%}$).
Reconstitution:	Reconstitute with deionized water.
Storage:	Aliquot and store at -20° C for prolonged periods. Avoid freeze-thaw cycles. Alternatively, add 0.02% (w/v) sodium azide and store at 4° C.
Country of origin:	USA
Size Options:	0.1 mg or 0.5 mg

References

1) X. Liang, S.R. Russell, S. Estelle, L.H. Jones, S. Cho, M.L. Kahn, M.C. Berndt, S.T. Bunting, J. Ware, R. Li. Specific inhibition of ectodomain shedding of glycoprotein Ibα by targeting its juxtamembrane shedding cleavage site. (2013). *J Thromb Haemost*. 11(12): 2155–2162.

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