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GP1BA Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant GP1BA.
Catalog # AT2241a

Product Information

Application	WB, IP, E
Primary Accession	P07359
Other Accession	BC027955
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	1C6
Calculated MW	71540

Additional Information

Gene ID	2811
Other Names	Platelet glycoprotein Ib alpha chain, GP-Ib alpha, GPIb-alpha, GPIbA, Glycoprotein Ibalpha, Antigen CD42b-alpha, CD42b, Glycocalicin, GP1BA
Target/Specificity	GP1BA (AAH27955, 19 a.a. ~ 128 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IP~~N/A E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	GP1BA Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

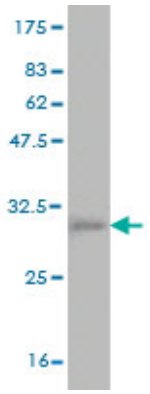
Background

Glycoprotein Ib (GP Ib) is a platelet surface membrane glycoprotein composed of a heterodimer, an alpha chain and a beta chain, that is linked by disulfide bonds. The Gp Ib functions as a receptor for von Willebrand factor (VWF). The complete receptor complex includes noncovalent association of the alpha and beta subunits with platelet glycoprotein IX and platelet glycoprotein V. The binding of the GP Ib-IX-V complex to VWF facilitates initial platelet adhesion to vascular subendothelium after vascular injury, and also initiates signaling events within the platelet that lead to enhanced platelet activation, thrombosis, and hemostasis. This gene encodes the alpha subunit. Several polymorphisms and mutations have been described in this gene, some of which are the cause of Bernard-Soulier syndromes and platelet-type von Willebrand disease.

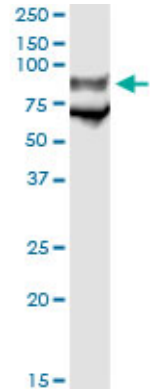
References

A genetic association study of maternal and fetal candidate genes that predispose to preterm prelabor rupture of membranes (PROM). Romero R, et al. Am J Obstet Gynecol, 2010 Jul 29. PMID 20673868.The allele frequencies of HPA 1-16 determined by PCR-SSP in Chinese Cantonese donors. Nie YM, et al. Transfus Med, 2010 Jul 28. PMID 20667040.Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.Study of 18 functional hemostatic polymorphisms in mucocutaneous bleeding disorders. Ant?n AI, et al. Ann Hematol, 2010 Nov. PMID 20532885.The c-Myc target glycoprotein1balpha links cytokinesis failure to oncogenic signal transduction pathways in cultured human cells. Wu Q, et al. PLoS One, 2010 May 25. PMID 20520840.

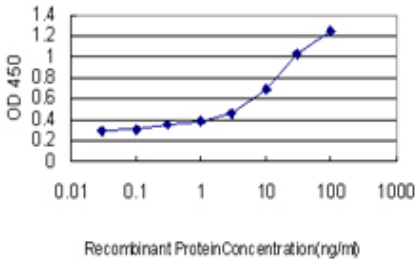
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.84 KDa) .



Immunoprecipitation of GP1BA transfected lysate using anti-GP1BA monoclonal antibody and Protein A Magnetic Bead (U0007), and immunoblotted with GP1BA MaxPab rabbit polyclonal antibody.



Detection limit for recombinant GST tagged GP1BA is approximately 0.03ng/ml as a capture antibody.