

CD42B Monoclonal Antibody

Description

Product type	Antibody
Code	BT-MCA3813
Host	Mouse
Isotype	Mouse IgG1
Size	100µL, 50µL
Immunogen	Purified recombinant fragment of human CD42B (AA: extra 17-183) expressed in E. Coli.
Mol wt	71.5kDa
Species reactivity	Human
Clonality	Monoclonal
Recommended application	WB,FCM
Concentration	N/A
Full name	N/A
Synonyms	GP1BA;BSS;GP1B;VWDP;GPIbA;BDPLT1;BDPLT3;DBPLT3;GPIbalpha;CD42b-alpha

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

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. Mutations in this gene result in Bernard-Soulier syndromes and platelet-type von Willebrand disease. The coding region of this gene is known to contain a polymorphic variable number tandem repeat (VNTR) domain that is associated with susceptibility to nonarteritic anterior ischemic optic neuropathy.

Recommended Dilution

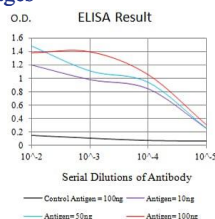
WB: 1:500 - 1:2000

FCM: 1:200 - 1:400

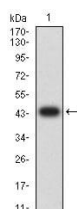
ELISA: 1:10000

Not yet tested in other applications.

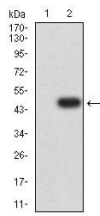
Images



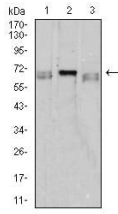
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



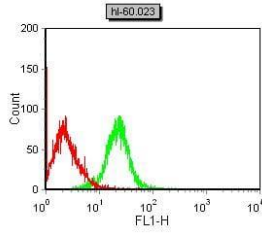
Western blot analysis using CD42B mAb against human CD42B (AA: extra 17-183) recombinant protein. (Expected MW is 44.2 kDa)



Western blot analysis using CD42B mAb against HEK293 (1) and CD42B (AA: extra 17-183)-hlgGFc transfected HEK293 (2) cell lysate.



Western blot analysis using CD42B mouse mAb against K562 (1), HL-60 (2), and Ramos (3) cell lysate.



Flow cytometric analysis of HL-60 cells using CD42B mouse mAb (green) and negative control (red).

Storage

Store at 4°C short term. Aliquot and store at -20°C long term.

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