

## CD42B Monoclonal Antibody

### Description

<b>Product type</b>	Antibody
<b>Code</b>	BT-MCA4380
<b>Host</b>	Mouse
<b>Isotype</b>	Mouse IgG1
<b>Size</b>	100µL, 50µL
<b>Immunogen</b>	Purified recombinant fragment of human CD42B (AA: extra 17-183) expressed in E. Coli.
<b>Mol wt</b>	71.5kDa
<b>Species reactivity</b>	Human
<b>Clonality</b>	Monoclonal
<b>Recommended application</b>	WB,IHC,FCM
<b>Concentration</b>	N/A
<b>Full name</b>	N/A
<b>Synonyms</b>	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

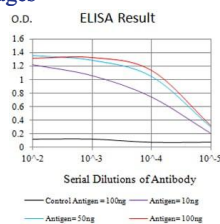
IHC-p: 1:200 - 1:1000

FCM: 1:200 - 1:400

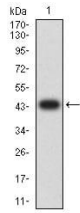
ELISA: 1:10000

Not yet tested in other applications.

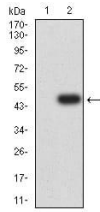
### Images



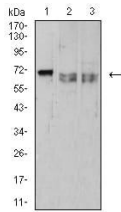
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



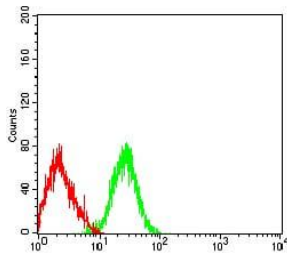
Western blot analysis using CD42B mAb against human CD42B (AA: extra 17-183) recombinant protein. (Expected MW is 44.2 kDa)



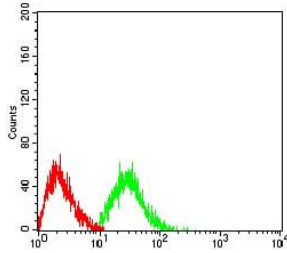
Western blot analysis using CD42B mAb against HEK293 (1) and CD42B (AA: extra 17-183)-hIgGFc transfected HEK293 (2) cell lysate.



Western blot analysis using CD42B mouse mAb against HL-60 (1), MOLT4 (2), and Ramos (3) cell lysate.



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



Flow cytometric analysis of Jurkat 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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