

## Purified Anti-Human CD42b Antibody[HIP1]

catalog number: E-AB-F1327A

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

### Description

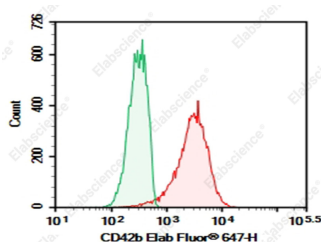
|                     |                                                                                                                                                 |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity</b>   | Human                                                                                                                                           |
| <b>Immunogen</b>    | Recombinant Human CD42b protein                                                                                                                 |
| <b>Host</b>         | Mouse                                                                                                                                           |
| <b>Isotype</b>      | Mouse IgG1, $\kappa$                                                                                                                            |
| <b>Clone</b>        | HIP1                                                                                                                                            |
| <b>Purification</b> | >98%, Protein A/G purified                                                                                                                      |
| <b>Buffer</b>       | Phosphate-buffered solution, pH 7.2, containing 0.05% non-protein stabilizer.<br>Dialyze to completely remove the stabilizer prior to labeling. |

### Applications

### Recommended Dilution

**FCM**  $\leq 0.2 \mu\text{g}$  per million cells in 100  $\mu\text{L}$  volume

### Data



Human peripheral blood platelet cell were stained with 0.2  $\mu\text{g}$  Purified Anti-Human CD42b Antibody[HIP1] (Right) and 0.2  $\mu\text{g}$  Mouse IgG1,  $\kappa$  Isotype Control (Left), followed

by Elab Fluor® 647-conjugated Goat Anti-Mouse IgG Secondary Antibody.

### Preparation & Storage

|                 |                                                                                                    |
|-----------------|----------------------------------------------------------------------------------------------------|
| <b>Storage</b>  | Store at 4°C valid for 12 months or -20°C valid for long term storage, avoid freeze / thaw cycles. |
| <b>Shipping</b> | Ice bag                                                                                            |

### 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.

### For Research Use Only

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