

Anti-Hu CD42b Purified GP1BA Monoclonal Antibody

Catalog Number: M02073

About GP1BA

CD42b (GPIb alpha) composes together with GPIb beta, GPIX and GPV the GPIb-IX-V receptor complex critical in the process of platelet-rich thrombus formation by tethering the platelet to a thrombogenic surface. CD42b binds to von Willebrand factor (VWF) exposed at a site of vascular injury, as well as to thrombin, coagulation factors XI and XII, high molecular weight kininogen, TSP-1, integrin Mac-1 and P-selectin. The extracellular domain of CD42b by its interactions also contributes to metastasis.

Overview

Product Name	Anti-Hu CD42b Purified GP1BA Monoclonal Antibody
Reactive Species	Human
Description	Boster Bio Anti-Hu CD42b Purified GP1BA Monoclonal Antibody (Catalog# M02073). Tested in Flow Cytometry, IP, WB, ICC, ELISA application(s). This antibody reacts with Human.
Application	ELISA, Flow Cytometry, IP, ICC, WB
Clonality	Monoclonal AK2
Formulation	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage Instructions	Store at 2-8°C. Do not freeze.
Host	Mouse
Uniprot ID	P07359

Technical Details

Immunogen	Human platelets. The mouse monoclonal antibody AK2 recognizes an extracellular epitope of CD42b (GPIb alpha), a 135-145 kDa membrane glycoprotein expressed on platelets and megakaryocytes. CD42b and CD42c (GPIb beta) are composed in a disulfide linked heterodimer (CD42b/c; 160 kDa); CD42b/c forms a noncovalent complex with CD42a and CD42d.
Predicted Reactive Species	Primate
Cross Reactivity	This antibody does not cross-react with Thy-1.1 alloantigen.
Isotype	Mouse IgG1
Form	Liquid
Concentration	1 mg/ml
Purification	Purified by protein-A affinity chromatography.

Suggested Dilutions

Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

Flow cytometry: 1-4 ug/ml.

Anti-Hu CD42b Purified GP1BA Monoclonal Antibody (M02073) Images

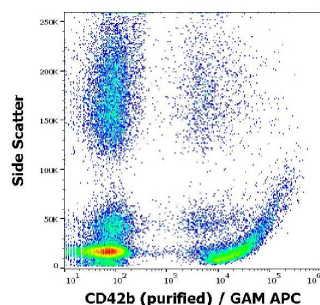


Figure 1. Flow Cytometry validation of GP1BA using Anti-Hu CD42b Purified GP1BA Monoclonal Antibody (M02073).

Flow cytometry surface staining pattern of human peripheral blood stained using anti-human CD42b (AK2) purified antibody (concentration in sample 4 ug/ml) GAM APC.

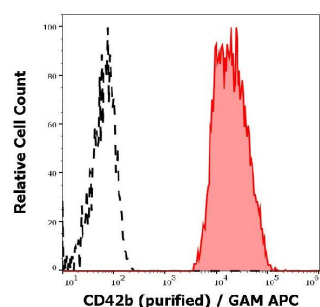


Figure 2. Flow Cytometry validation of GP1BA using Anti-Hu CD42b Purified GP1BA Monoclonal Antibody (M02073).

Separation of human thrombocytes (red-filled) from CD42b negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD42b (AK2) purified antibody (concentration in sample 4 ug/ml) GAM APC.

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