

For Research Use Only

# Atlantic Blue™ Anti-Human CD42b (AK2)

Catalog Number: AB-65163



## Basic Information

Catalog Number:

AB-65163

Concentration:

100 tests, 5 µl/test

Source:

Mouse

Isotype:

IgG1

GenBank Accession Number:

BC027955

GeneID (NCBI):

2811

ENSEMBL Gene ID:

ENSG00000185245

UNIPROT ID:

P07359

Full Name:

glycoprotein Ib (platelet), alpha polypeptide

Calculated MW:

626 aa, 69 kDa

Purification Method:

Purified by protein-A affinity chromatography

CloneNo.:

AK2

Recommended Dilutions:

FC: 5 µl per 10<sup>6</sup> cells in 100 µl suspension

Excitation/Emission maximum wavelengths:

404 nm / 458 nm

## Applications

Tested Applications:

FC

Species Specificity:

Human

Positive Controls:

FC : human peripheral blood platelets,

## Background Information

CD42b, also known as platelet glycoprotein Ib alpha chain (GPIb alpha), is a type I transmembrane glycoprotein of 135-145 kDa (PMID: 2656709). It is expressed on platelets and megakaryocytes. CD42b and CD42c (GPIb beta) are linked by a disulphide bond to form GPIb (PMID: 7660135). GPIb forms a noncovalent complex with CD42a (GPIX) and CD42d (GPV) and acts as a receptor for von Willebrand factor (vWF) and thrombin (PMID: 7660135; 3759960). The GPIb-V-IX complex mediates vWF-dependent platelet adhesion to blood vessels. Defects in the expression of CD42b result in Bernard-Soulier syndromes and platelet-type von Willebrand disease (PMID: 9371310).

## Storage

Storage:

Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 0.09% sodium azide and 0.5% BSA, pH7.3

For technical support and original validation data for this product please contact:

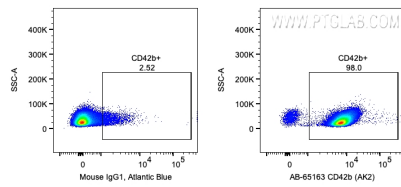
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

W: [ptgcn.com](http://ptgcn.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



1X10<sup>6</sup> human peripheral blood platelets were surface stained with 5 ul Atlantic Blue™ Anti-Human CD42b (AB-65163, Clone:AK2) or Mouse IgG1 Isotype Control. Cells were not fixed.