

# PE Anti-Human CD42b (AK2)

Catalog Number: **PE-65163**

## Basic Information

**Catalog Number:**

PE-65163

**Size:**

100 tests, 5 µl/test

**Source:**

Mouse

**Isotype:**

IgG1

**GenBank Accession Number:**

BC027955

**GeneID (NCBI):**

2811

**Full Name:**

glycoprotein Ib (platelet), alpha polypeptide

**Calculated MW:**

626 aa, 69 kDa

**Purification Method:**

The purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography.

**CloneNo.:**

AK2

**Excitation/Emission maxima wavelengths:**

496 nm, 565 nm / 578 nm

## Applications

**Tested Applications:**

FC

**Species Specificity:**

Human

## 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.

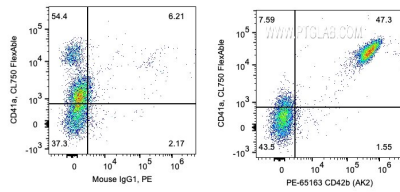
For technical support and original validation data for this product please contact:

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## Selected Validation Data



1X10<sup>6</sup> human peripheral blood platelets were surface co-stained with Anti-Human CD41a labeled with FlexAble CoraLite® Plus750 Antibody Labeling Kit for Mouse IgG1 (KFA024) and PE Anti-Human CD42b (PE-65163, Clone: AK2) or Mouse IgG1 Isotype Control. Cells were not fixed.