

For Research Use Only

# CoraLite® Plus 488 Anti-Human CD42b (AK2)

Catalog Number: CL488-65163



## Basic Information

### Catalog Number:

CL488-65163

### Size:

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:

493 nm / 522 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

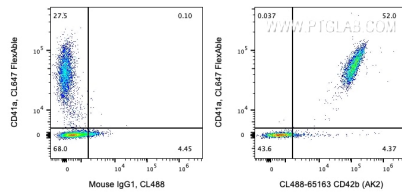
For technical support and original validation data for this product please contact:

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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® Plus 647 Antibody Labeling Kit for Mouse IgG1 (KFA023) and 5 ul CoraLite® Plus 488 Anti-Human CD42b (CL488-65163, Clone:AK2) or Mouse IgG1 Isotype Control. Cells were not fixed.