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## 30-2565: Anti-Human CD42b APC (Clone: AK2)

Clonality: Monoclonal

Clone Name: AK2
Application: FACS
Reactivity: Human
Conjugate: APC
Gene: GP1BA
Gene ID: 2811

Alternative Name:

BSS, GP1B, VWDP, CD42B, GPIbA, BDPLT1, BDPLT3, DBPLT3, glycoprotein lb platelet subunit

alpha

**Isotype:** Mouse IgG1 **Immunogen Information:** Human platelets

## **Description**

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.

Specificity: 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.

## **Product Info**

Amount: 100 tests

**Purification:** The purified antibody is conjugated with allophycocyanin (APC) under optimum conditions. The

conjugate is purified by size-exclusion chromatography.

**Content:** Formulation: Stabilizing phosphate buffered saline (PBS) solution containing 15 mM sodium

azide

**Storage condition:** Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light.

## **Application Note**

Flow cytometry: The reagent is designed for analysis of human blood cells using 10  $\tilde{A} \square \hat{A} \mu l$  reagent / 100  $\tilde{A} \square \hat{A} \mu l$  of whole blood or 10<sup>6</sup> cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

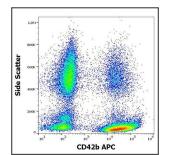


Figure 1 : Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD42b (AK2) APC antibody (10  $\mu$ l reagent / 100  $\mu$ l of peripheral whole blood).



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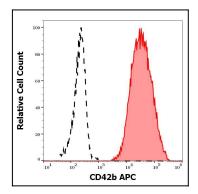


Figure 2 : Separation of human CD45 negative CD42b positive thrombocytes (red-filled) from CD42b negative neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using antihuman CD42b (AK2) APC antibody (10  $\mu$ l reagent / 100  $\mu$ l of peripheral whole blood).