

## Product datasheet

# Biotin Anti-CD42b antibody [AK2] ab30400

[2 References](#) [1 Image](#)

### Overview

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<b>Product name</b>	Biotin Anti-CD42b antibody [AK2]
<b>Description</b>	Biotin Mouse monoclonal [AK2] to CD42b
<b>Host species</b>	Mouse
<b>Conjugation</b>	Biotin
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	The details of the immunogen for this antibody are not available.
<b>Positive control</b>	Human peripheral blood platelets
<b>General notes</b>	<p>Clone AK2 has been reported to block the binding of von Willebrand Factor to platelets.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.09% Sodium azide Constituents: PBS, 1% BSA
<b>Purity</b>	Protein G purified
<b>Primary antibody notes</b>	Clone AK2 has been reported to block the binding of von Willebrand Factor to platelets.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	AK2

Isotype

IgG1

## Applications

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### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab30400 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use at an assay dependent concentration. Use neat or 10µl for 100µl of whole blood.

## Target

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### Function

GP-Ib, a surface membrane protein of platelets, participates in the formation of platelet plugs by binding to the A1 domain of vWF, which is already bound to the subendothelium.

### Involvement in disease

Non-arteritic anterior ischemic optic neuropathy  
Bernard-Soulier syndrome  
Bernard-Soulier syndrome A2, autosomal dominant  
Pseudo-von Willebrand disease

### Sequence similarities

Contains 7 LRR (leucine-rich) repeats.  
Contains 1 LRRCT domain.  
Contains 1 LRRNT domain.

### Post-translational modifications

Glycocalicin, which is approximately coextensive with the extracellular part of the molecule, is cleaved off by calpain during platelet lysis.

### Cellular localization

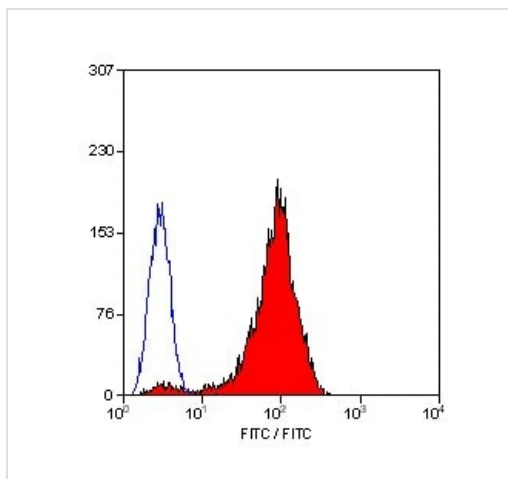
Membrane.

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## Images

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Flow cytometric analysis of CD42b expressing cells in human peripheral blood platelets using ab30400.



Flow Cytometry - Biotin Anti-CD42b antibody [AK2]  
(ab30400)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

### Our Abpromise to you: Quality guaranteed and expert technical support

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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