

Product datasheet

Anti-CD42b antibody [AK2] - BSA and Azide free ab252264

Recombinant

[1 References](#) [4 Images](#)

Overview

| | |
|----------------------------|--|
| Product name | Anti-CD42b antibody [AK2] - BSA and Azide free |
| Description | Mouse monoclonal [AK2] to CD42b - BSA and Azide free |
| Host species | Mouse |
| Tested applications | Suitable for: ICC/IF, Flow Cyt, IHC-Fr Unsuitable for: IHC-P, IP or WB |
| Species reactivity | Reacts with: Mouse, Human |
| Immunogen | Recombinant fragment. This information is considered to be commercially sensitive. |
| Positive control | ICC/IF: HEL cells and mouse splenocytes. Flow cyt: Human peripheral blood mononuclear cells |
| General notes | <p>ab252264 is the carrier-free version of ab61402.</p> <p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> |

Properties

| | |
|-----------------------------|---|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Store at +4°C. Do Not Freeze. |

| | |
|-----------------------|-----------------------------|
| Storage buffer | pH: 7.2 Constituent: PBS |
| Carrier free | Yes |
| Purity | Protein A purified |
| Clonality | Monoclonal |
| Clone number | AK2 |
| Isotype | IgG1 |

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab252264 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

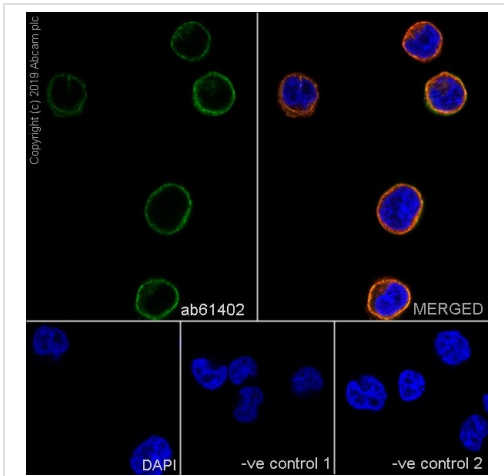
| Application | Abreviews | Notes |
|-------------|-----------|--|
| ICC/IF | | 1/50. |
| Flow Cyt | | 1/490. |
| IHC-Fr | | Use at an assay dependent concentration. |

Application notes Is unsuitable for IHC-P,IP or WB.

Target

| | |
|---|---|
| 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. |

Images



Immunocytochemistry/ Immunofluorescence - Anti-CD42b antibody [AK2] - BSA and Azide free (ab252264)

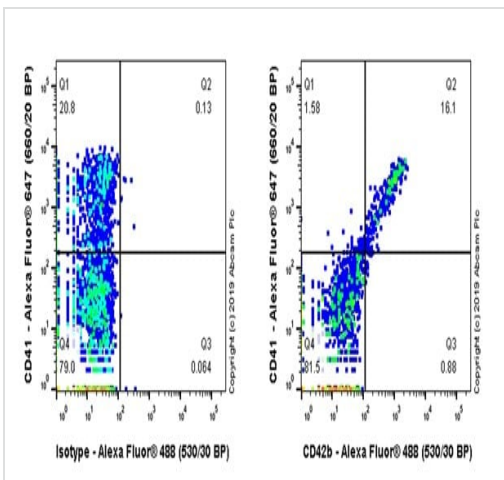
Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized HEL (human Erythroleukemia erythroblast) cells labelling CD42b with **ab61402** at 1/50 dilution, followed by **ab150113** AlexaFluor®488 Goat anti-Mouse secondary antibody at 1/1000 dilution (Green). Confocal image showing membranous staining in HEL cells. **ab179504** Anti-beta IV Tubulin antibody - Microtubule Marker was used to counterstain tubulin at 1/1000 dilution, followed by **ab150080** AlexaFluor®594 Goat anti-Rabbit secondary at 1/1000 dilution (Red). The Nuclear counterstain was DAPI (Blue).

The negative controls are as follows:

-ve control 1: **ab61402** at 1/100 dilution, followed by **ab150080** AlexaFluor®594 Goat anti-Rabbit secondary secondary at 1/1000 dilution.

-ve control 2: **ab179504** at 1/200 dilution, followed by **ab150113** AlexaFluor®488 Goat anti-Mouse secondary at 1/1000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab61402**).

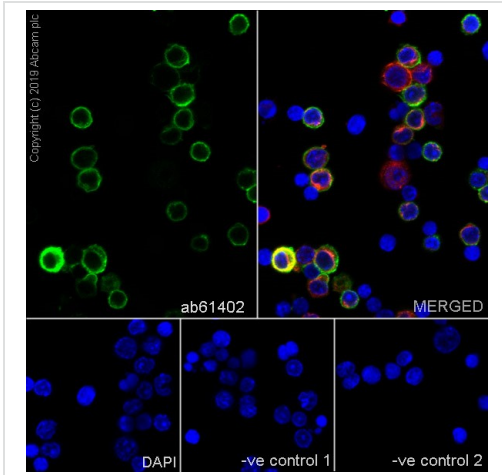


Flow Cytometry - Anti-CD42b antibody [AK2] - BSA and Azide free (ab252264)

Flow cytometric analysis of Human peripheral blood mononuclear cell (PBMC) cells labelling CD42b with **ab61402** at 1/490 (Right) compared with a Mouse IgG isotype control (Left). Goat anti mouse IgG (Alexa Fluor® 488, **ab150113**) at 1/2000 dilution was used as the secondary antibody.

Cells were stained with mouse IgG (Left) or **ab61402** (Right). Then stained with anti-CD41 conjugated to APC. Gated on viable cells.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab61402**).



Immunocytochemistry/ Immunofluorescence - Anti-CD42b antibody [AK2] - BSA and Azide free (ab252264)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized mouse splenocytes cells labelling CD42b with **ab61402** at 1/50 dilution, followed by **ab150113** AlexaFluor®488 Goat anti-Mouse secondary antibody at 1/1000 dilution (Green). Confocal image showing membranous staining in mouse splenocytes. **ab179504** Anti-beta IV Tubulin antibody - Microtubule Marker was used to counterstain tubulin at 1/1000 dilution, followed by **ab150080** AlexaFluor®594 Goat anti-Rabbit secondary at 1/1000 dilution (Red). The Nuclear counterstain was DAPI (Blue).

The negative controls are as follows:

-ve control 1: **ab61402** at 1/100 dilution, followed by **ab150080** AlexaFluor®594 Goat anti-Rabbit secondary secondary at 1/1000 dilution.

-ve control 2: **ab179504** at 1/200 dilution, followed by **ab150113** AlexaFluor®488 Goat anti-Mouse secondary at 1/1000 dilution.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is **ab150113** AlexaFluor®488 Goat anti-Mouse secondary at 1:1000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab61402**).

Why choose a recombinant antibody?

| | |
|--|--|
|  <p>Research with confidence Consistent and reproducible results</p> |  <p>Long-term and scalable supply Recombinant technology</p> |
|  <p>Success from the first experiment Confirmed specificity</p> |  <p>Ethical standards compliant Animal-free production</p> |

Anti-CD42b antibody [AK2] - BSA and Azide free (ab252264)

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

- 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.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors