

Product datasheet

Anti-CD14 antibody [5A3B11B5] ab36595

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Overview

| | |
|----------------------------|---|
| Product name | Anti-CD14 antibody [5A3B11B5] |
| Description | Mouse monoclonal [5A3B11B5] to CD14 |
| Host species | Mouse |
| Tested applications | Suitable for: IHC-P, Flow Cyt |
| Species reactivity | Reacts with: Human |
| Immunogen | Ni-NTA purified recombinant human CD14 expressed in E. Coli strain BL21 (DE3). |
| Positive control | Human lymph node normal tissue. |
| General notes | <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&As</p> |

Properties

| | |
|-----------------------------|---|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. |
| Storage buffer | Preservative: 0.05% Sodium azide Constituent: PBS |
| Purity | Protein G purified |
| Purification notes | Purified from tissue culture supernatant. |
| Clonality | Monoclonal |
| Clone number | 5A3B11B5 |
| Isotype | IgG1 |

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab36595 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 |
|-------------|-----------|---|
| IHC-P | | Use at an assay dependent concentration. |
| Flow Cyt | | Use 0.01µg for 10 ⁶ cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody. |

Target

Function

Cooperates with MD-2 and TLR4 to mediate the innate immune response to bacterial lipopolysaccharide (LPS). Acts via MyD88, TIRAP and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response. Up-regulates cell surface molecules, including adhesion molecules.

Tissue specificity

Expressed strongly on the surface of monocytes and weakly on the surface of granulocytes; also expressed by most tissue macrophages.

Sequence similarities

Contains 11 LRR (leucine-rich) repeats.

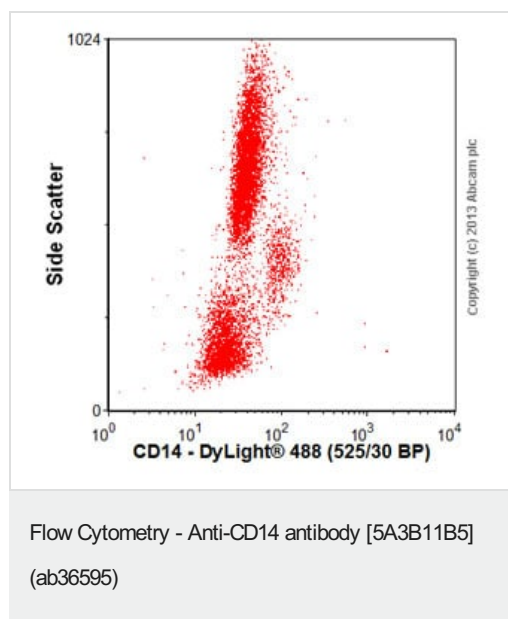
Post-translational modifications

N- and O- glycosylated. O-glycosylated with a core 1 or possibly core 8 glycan.

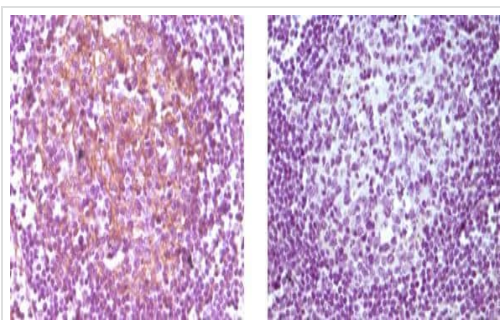
Cellular localization

Cell membrane.

Images



Human peripheral blood cells stained with ab36595 (red line). Human whole blood was processed using a modified protocol based on Chow *et al*, 2005 (PMID: 16080188). In brief, human whole blood was fixed in 4% formaldehyde (methanol-free) for 10 min at 22°C. Red blood cells were then lysed by the addition of Triton X-100 (final concentration - 0.1%) for 15 min at 37°C. For experimentation, cells were treated with 50% methanol (-20°C) for 15 min at 4°C. Cells were then incubated with the antibody (ab36595, 0.01µg/1x10⁶ cells) for 30 min at 4°C. The secondary antibody used was Alexa Fluor® 488 goat anti-mouse IgG (H&L) (**ab150113**) at 1/2000 dilution for 30 min at 4°C. Acquisition of >30,000 total events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD14 antibody [5A3B11B5] (ab36595)

Ab36595 at a 1/1300 dilution (Figure 1), and normal mouse serum at a 1/20 dilution (Figure 2), staining paraffin embedded human normal lymph node by immunohistochemistry. HRP-anti-mouse was used as the secondary antibody before colour development with DAB.

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

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