Anti-CD14 antibody [4B4F12] ab182032

Overview

Product name: Anti-CD14 antibody [4B4F12]
Description: Mouse monoclonal [4B4F12] to CD14
Host species: Mouse
Tested applications: Suitable for: WB, IHC-P, Flow Cyt
Species reactivity: Reacts with: Mouse, Human
Immunogen: Recombinant fragment corresponding to Human CD14 aa 1-250. Expressed in E. coli. Database link: P08571


General notes: 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.
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

Properties

Form: Liquid
Storage buffer: Preservative: 0.05% Sodium azide
Constituent: 99% PBS
Purity: Protein G purified
Purification notes: Purified from tissue culture supernatant.
Clonality: Monoclonal
Clone number: 4B4F12
Isotype: IgG1
The Abpromise guarantee

Our Abpromise guarantee covers the use of ab182032 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>IHC-P</td>
<td>⭐⭐⭐⭐⭐ (1)</td>
<td>1/200 - 1/1000.</td>
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<tr>
<td>Flow Cyt</td>
<td></td>
<td>1/200 - 1/400. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.</td>
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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

Flow cytometric analysis of Jurkat cells labeling CD14 using ab182032 at 1/200 (green) and a negative control (red).
Immunohistochemical analysis of paraffin-embedded, DAB-stained Human stomach cancer tissues labeling CD14 using ab182032 at 1/200.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD14 antibody [4B4F12] (ab182032)

Western blot - Anti-CD14 antibody [4B4F12] (ab182032) at 1/500 dilution + Human CD14 recombinant protein (amino acids 20-214)

Predicted band size: 40 kDa

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse liver tissue section labeling CD14 with ab182032. The tissue was fixed with formaldehyde, heat mediated antigen retrieval was performed followed by blocking with 5% serum for 12 hours at 4°C. The tissue was incubated with undiluted Anti-CD14 antibody [4B4F12] (ab182032) for 12 hours at 4°C.

This image is courtesy of an anonymous abreview.
**Western blot - Anti-CD14 antibody [4B4F12] (ab182032)**

**All lanes:** Anti-CD14 antibody [4B4F12] (ab182032) at 1/500 dilution

**Lane 1:** Lysate from HEK293 cells
**Lane 2:** Lysate from HEK293 cells transfected with CD14 (amino acids 20-214)-hlgGFc

**Predicted band size:** 40 kDa

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

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**Western blot - Anti-CD14 antibody [4B4F12] (ab182032)**

**All lanes:** Anti-CD14 antibody [4B4F12] (ab182032) at 1/500 dilution

**Lane 1:** HepG2 cell lysate
**Lane 2:** A549 cell lysate
**Lane 3:** HL60 cell lysate
**Lane 4:** mouse RAW264.7 cell lysate
**Lane 5:** HeLa cell lysate
**Lane 6:** HEK293 cell lysate
**Lane 7:** mouse NIH 3T3 cell lysate

**Predicted band size:** 40 kDa

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