Product datasheet

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
Sequence:

```
T TPEPCELDDE DFRCVCNFSE PQPDWSEAFQ CVSAVEVEI H AGGLNLEPFL KRVDADADPR QYADTVKALR VRRLTVGAAQ VPAQLLVGAL RVLAYSRLKE LTLEDKIG TMPPLPLEAT GLALSSLRLR NVSWATGRSW LAELQQLKLP GLKVLSIAQA HSPAFSCEQV RAFLALTSLD LSDNPGLGER GLMA
```

Database link: P08571


Properties

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

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.

Applications

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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</thead>
<tbody>
<tr>
<td>IHC-P</td>
<td>††††</td>
<td>1/200 - 1/1000.</td>
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<tr>
<td>Flow Cyt</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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</table>

Target

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.

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.
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)-hIgGFc

Predicted band size: 40 kDa

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