# Product datasheet

## Anti-CD14 antibody [1H5D8] ab181470

**2 References**  
**5 Images**

### Overview

<table>
<thead>
<tr>
<th><strong>Product name</strong></th>
<th>Anti-CD14 antibody [1H5D8]</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Mouse monoclonal [1H5D8] to CD14</td>
</tr>
<tr>
<td><strong>Host species</strong></td>
<td>Mouse</td>
</tr>
<tr>
<td><strong>Tested applications</strong></td>
<td>Suitable for: ICC/IF, IHC-P, WB</td>
</tr>
<tr>
<td><strong>Species reactivity</strong></td>
<td>Reacts with: Human</td>
</tr>
<tr>
<td><strong>Database link</strong></td>
<td>P08571</td>
</tr>
</tbody>
</table>

### Positive control


### General notes

This product was changed from ascites to supernatant. Lot no’s high than GR281538-10 are from Tissue Culture Supernatant.

### Properties

<table>
<thead>
<tr>
<th><strong>Form</strong></th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Storage instructions</strong></td>
<td>Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.</td>
</tr>
</tbody>
</table>
| **Storage buffer** | Preservative: 0.05% Sodium azide  
Constituent: PBS |

Contains 0.5% protein stabilizer.
Purity  Protein G purified
Purification notes  Purified from tissue culture supernatant.
Clonality  Monoclonal
Clone number  1H5D8
Isotype  IgG2a

Applications

Our Abpromise guarantee covers the use of ab181470 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>
</tr>
</thead>
<tbody>
<tr>
<td>ICC/IF</td>
<td></td>
<td>1/200 - 1/1000.</td>
</tr>
<tr>
<td>IHC-P</td>
<td></td>
<td>1/200 - 1/1000.</td>
</tr>
</tbody>
</table>

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
Western blot - Anti-CD14 antibody [1H5D8] (ab181470)

**All lanes**: Anti-CD14 antibody [1H5D8] (ab181470) at 1/500 dilution

**Lane 1**: Non-transfected HEK-293 (Human epithelial cell line from embryonic kidney) cell lysate

**Lane 2**: CD14 (aa 20-214)-hIgGFc transfected HEK-293 (Human epithelial cell line from embryonic kidney) cell lysate

**Predicted band size**: 40 kDa

Immunofluorescent analysis of HepG2 (Human liver hepatocellular carcinoma cell line) cells labeling CD14 with ab181470 at 1/200 dilution (green). Blue: DRAQ5 fluorescent DNA dye.

Immunohistochemical analysis of paraffin-embedded human colon tissue labeling CD14 with ab181470 at 1/200 dilution with DAB staining.
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue labeling CD14 with ab181470 at 1/200 dilution with DAB staining.

Anti-CD14 antibody [1H5D8] (ab181470) at 1/500 dilution + Human CD14 (aa 20-214) recombinant protein

**Predicted band size:** 40 kDa

Expected MWt is 46.8 kDa.

**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](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