**Anti-Iba1 antibody [1022-5] ab15690**

<table>
<thead>
<tr>
<th>Overview</th>
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<tbody>
<tr>
<td><strong>Product name</strong></td>
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<tr>
<td><strong>Description</strong></td>
</tr>
<tr>
<td><strong>Host species</strong></td>
</tr>
<tr>
<td><strong>Specificity</strong></td>
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<table>
<thead>
<tr>
<th>Tested applications</th>
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<tbody>
<tr>
<td><strong>Suitable for:</strong> ICC/IF, WB, IHC-P</td>
</tr>
<tr>
<td><strong>Unsuitable for:</strong> IHC-Fr</td>
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<table>
<thead>
<tr>
<th>Species reactivity</th>
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</thead>
<tbody>
<tr>
<td><strong>Reacts with:</strong> Rat, Human</td>
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<table>
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<tr>
<th>Immunogen</th>
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<tbody>
<tr>
<td>Recombinant full length protein (Human).</td>
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<tr>
<th>Positive control</th>
</tr>
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<tbody>
<tr>
<td>Spleen, THP1, C6</td>
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<th>Properties</th>
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<tr>
<td><strong>Form</strong></td>
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<td><strong>Storage instructions</strong></td>
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</table>
| **Storage buffer** | Preservative: 0.1% Sodium Azide  
Constituents: 1% BSA, PBS, pH 7.2 |
| **Purity** | Affinity purified |
| **Clonality** | Monoclonal |
| **Clone number** | 1022-5 |
| **Isotype** | IgG2b |

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<tr>
<th>Applications</th>
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Our Abpromise guarantee covers the use of ab15690 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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<tr>
<td>ICC/IF</td>
<td>[rating]</td>
<td>Use at an assay dependent concentration. PubMed: 24916922</td>
</tr>
<tr>
<td>WB</td>
<td>[rating]</td>
<td>Use a concentration of 1 µg/ml. Detects a band of approximately 17 kDa (predicted molecular weight: 17 kDa). We recommend blocking in milk. Blocking with BSA gives high background.</td>
</tr>
<tr>
<td>IHC-P</td>
<td>[rating]</td>
<td>Use a concentration of 10 - 20 µg/ml. Perform heat mediated antigen retrieval via the microwave method before commencing with IHC staining protocol.</td>
</tr>
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</table>

**Application notes**

Is unsuitable for IHC-Fr.

**Target**

**Function**


**Tissue specificity**

Detected in T-lymphocytes and peripheral blood mononuclear cells.

**Sequence similarities**

Contains 2 EF-hand domains.

**Post-translational modifications**

Phosphorylated on serine residues.

**Cellular localization**

Cytoplasm > cytoskeleton. Cell projection > ruffle membrane. Associated with the actin cytoskeleton at membrane ruffles and at sites of phagocytosis.

**Images**

IHC image of Iba1 staining in human normal spleen formalin fixed paraffin embedded tissue section*, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab15690, 10µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.
Western blot - Anti-Iba1 antibody [1022-5] (ab15690)

All lanes: Anti-Iba1 antibody [1022-5] (ab15690) at 1 µg/ml

Lane 1: Human Iba1 full length recombinant protein at 0.1 µg
Lane 2: HEK293 whole cell lysate at 20 µg
Lane 3: A431 whole cell lysate at 20 µg
Lane 4: NIH3T3 whole cell lysate at 30 µg
Lane 5: Human spleen tissue lysate at 20 µg
Lane 6: Mousespleen tissue lysate at 30 µg
Lanes 7 & 16: Rat spleen tissue lysate at 30 µg
Lane 8: U937 whole cell lysate at 20 µg
Lane 9: MOLT4 whole cell lysate at 20 µg
Lanes 10 & 17: THP1 whole cell lysate at 30 µg
Lane 11: THP1 whole cell lysate, PMA treated at 30 µg
Lane 12: Raw 264.7 whole cell lysate at 30 µg
Lane 13: C6 whole cell lysate at 30 µg
Lane 14: NR8383 whole cell lysate at 30 µg
Lane 15: Mouse spleen tissue lysate at 30 µg

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 17 kDa

Lanes 1-14: Blocked in 3% milk for 1 hour (RT). Lanes 15-17: Blocked in 5% BSA for 1 hour (RT).
Lane 1: exposure 1 minute. Lanes 2-17: exposure 8 minutes.
Abcam recommends blocking in milk for cleaner blots with reduced background, in comparison to BSA.

This blot was produced using a 4-12% Bis-Tris gel under the MOPS buffer system. The gel was run at 200V for 60 minutes before being transferred onto a nitrocellulose membrane at 30V for 70 minutes.
The membrane was then blocked for an hour before being incubated with ab15690 (anti-Iba1 antibody; 1 ug/mL) for 18 hours at 4°C. Antibody binding was detected using ab97040 (HRP-labelled goat anti-mouse IgG) at 1:50,000 dilution for 1 hour at room temperature and visualised using ECL development solution ab133406.
Ab15690 staining IBA1 in human induced microglia by ICC/IF (Immunocytochemistry/Immunofluorescence). Cells were fixed with 4% paraformaldehyde for 15 minutes. Samples were incubated with primary antibody (1:200) for 2 hours at room temperature. Hoechst nuclear stain (blue) was used at 1:5000 dilution.

Immunohistochemical analysis of paraffin embedded human spleen sections, labelling Iba1 with ab15690.

Immunohistochemical analysis of paraffin embedded human spleen sections, labelling Iba1 with ab15690.

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