**Product datasheet**

**Anti-MHC class I + HLA A + HLA B antibody [EPR1394Y] ab134189**

Recombinant RabMAb®

★★★★★ 2 Abreviews  6 References  3 Images

**Overview**

<table>
<thead>
<tr>
<th>Product name</th>
<th>Anti-MHC class I + HLA A + HLA B antibody [EPR1394Y]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Rabbit monoclonal [EPR1394Y] to MHC class I + HLA A + HLA B</td>
</tr>
<tr>
<td>Host species</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Specificity</td>
<td>In our hands the antibody did not work in WB with mouse samples, but customer data suggest that reactivity in ICC/IF and IHC. The target shows high sequence homology with HLA-C and HLA-E, and it is possible that this antibody will detect these proteins too.</td>
</tr>
</tbody>
</table>
| Tested applications | Suitable for: WB, IHC-P, ICC, Flow Cyt  
Unsuitable for: IP |
| Species reactivity | Reacts with: Human  
Predicted to work with: Mouse  |
| Immunogen | Synthetic peptide within Human MHC class I. The exact sequence is proprietary. |
| Positive control | Raji and THP1 cell lysates, Human tonsil tissue |
| General notes | Rat. We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information. |

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents

We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

This product is a recombinant rabbit monoclonal antibody.

**Properties**

<table>
<thead>
<tr>
<th>Form</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage instructions</td>
<td>Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C.</td>
</tr>
</tbody>
</table>
Stable for 12 months at -20°C.

Storage buffer
pH: 7.40
Preservative: 0.01% Sodium azide
Constituents: 59% PBS, 40% Glycerol, 0.5% BSA

Purity
Protein A purified

Clonality
Monoclonal

Clone number
EPR1394Y

Isotype
IgG

Applications

Our Abpromise guarantee covers the use of ab134189 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>WB</td>
<td></td>
<td>1/1000 - 1/10000. Detects a band of approximately 41 kDa (predicted molecular weight: 41 kDa).</td>
</tr>
<tr>
<td>IHC-P</td>
<td>⭐⭐⭐⭐⭐</td>
<td>1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.</td>
</tr>
<tr>
<td>ICC</td>
<td></td>
<td>1/100 - 1/250.</td>
</tr>
<tr>
<td>Flow Cyt</td>
<td></td>
<td>1/20 - 1/1000. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.</td>
</tr>
</tbody>
</table>

Application notes
Is unsuitable for IP.

Target

Cellular localization
MHC class I: Cell Membrane; Type I membrane protein. HLA B: Membrane.

Images

Immunohistochemical analysis of paraffin-embedded Human tonsil labelling MHC class I with ab134189 at 1/100 dilution.
Overlay histogram showing Raji cells stained with ab134189 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab134189, 1/1000 dilution) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-rabbit IgG (H&L) (ab150077) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (0.1μg/1x10⁶ cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter. This antibody gave a positive signal in Raji cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.

**Western blot - Anti-MHC class I + HLA A + HLA B antibody [EPR1394Y] (ab134189)**

All lanes: Anti-MHC class I + HLA A + HLA B antibody [EPR1394Y] (ab134189) at 1/1000 dilution

Lane 1: Raij cell lysate
Lane 2: THP1 cell lysate

Lysates/proteins at 10 µg per lane.

**Secondary**

All lanes: HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 41 kDa

Observed band size: 41 kDa

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Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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- We investigate all quality concerns to ensure our products perform to the highest standards

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