# Anti-Human CD74 Antibody [K52031_20G12]

**Catalog No. K52031U20G12C**

## Overview

<table>
<thead>
<tr>
<th>Product name</th>
<th>Anti-Human CD74 Antibody [K52031_20G12]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antibody specificity</td>
<td>CD74 molecule</td>
</tr>
<tr>
<td>Species reactivity</td>
<td>Human</td>
</tr>
<tr>
<td>Clonality</td>
<td>Monoclonal</td>
</tr>
<tr>
<td>Clone number</td>
<td>K52031_20G12</td>
</tr>
<tr>
<td>Host / isotype</td>
<td>Mouse / IgG2b</td>
</tr>
<tr>
<td>Immunogen</td>
<td>Recombinant Human CD74</td>
</tr>
<tr>
<td>Cross reactivity</td>
<td>Not tested</td>
</tr>
<tr>
<td>Kinetic characterization by BLI (biolayer interferometry)</td>
<td>Not tested</td>
</tr>
<tr>
<td>Purification</td>
<td>Protein A purified from cell culture supernatants</td>
</tr>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Concentration</td>
<td>1 mg/mL in phosphate buffered saline containing 0.09% preservative</td>
</tr>
<tr>
<td>Conjugation</td>
<td>Unconjugated</td>
</tr>
</tbody>
</table>

**Shipping, storage and shelf life**

- 3 months when stored at 2 to 8 °C
- 1 year when aliquoted and stored at -20 °C
- 3 years when aliquoted and stored at -80 °C

## Applications

<table>
<thead>
<tr>
<th>Application</th>
<th>Recommended concentration</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indirect ELISA</td>
<td>1 µg/mL</td>
<td></td>
</tr>
<tr>
<td>Immunohistochemistry-paraffin (IHC-P)</td>
<td>5 µg/mL</td>
<td></td>
</tr>
</tbody>
</table>

**Note:**

- The applications above have already been verified. The antibody may be suitable for additional applications.
- Optimal antibody concentrations for each application should be determined by the user.

## Additional information

**Target antigen**

- Protein name: CD74 molecule
- Gene name: CD74
- UniProt Accession: P04233
- Organism: Homo sapiens (Human)
**Immunohistochemistry**

IHC-P analysis of human tonsil tissue by anti-human CD74 antibody (K52031_20G12). IHC-P was performed using sections of the formalin-fixed paraffin-embedded human tonsil tissue. Antigen was retrieved through addition of boiling Tris/EDTA buffer pH 9 in a pressure cooker for 3 min. Endogenous peroxidase activity was quenched by incubating the sections with 3% H₂O₂ for 30 min at room temperature. The sections were then incubated with anti-human CD74 primary antibody (K52031_20G12) at 5 µg/mL at room temperature for 1 h. Poly-peroxidase conjugated goat anti-mouse IgG was used as the secondary antibody. Diaminobenzidine was used as the chromogen. The section was counterstained with hematoxylin. A tissue section incubated with phosphate-buffered saline followed by incubation with the secondary antibody was used as the background control.

Result: Germinal center cells and non-germinal center cells are positively stained at the cell membrane.