Anti-Human CD83 Antibody [K70018_11E5]

Catalog No. K70018M11E05C

Overview

Product name: Anti-Human CD83 Antibody [K70018_11E5]
Antibody specificity: CD83 molecule (hCD83)
Species reactivity: Human
Clonality: Monoclonal
Clone number: K70018_11E5
Host / isotype: Mouse / IgG1
Immunogen: Recombinant human CD83
Cross reactivity: Not tested
Kinetic characterization by BLI (biolayer interferometry): Not tested
Purification: Protein A purified from cell culture supernatants
Form: Liquid
Concentration: 1 mg/mL in phosphate buffered saline containing 0.09% preservative
Conjugation: Unconjugated

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>Method</th>
<th>Recommended concentration</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western blot (WB)</td>
<td>1 µg/mL</td>
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<tr>
<td>Indirect ELISA</td>
<td>1 µg/mL</td>
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<tr>
<td>Immunohistochemistry-paraffin (IHC-P)</td>
<td>5 µg/mL</td>
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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: CD83 molecule
Gene name: CD83
UniProt Accession: Q01151
Organism: Homo sapiens (Human)

Paired antibody information
K70018_11E5 may pair with K70018_13H7 and K70018_16A4 for sandwich based immune assays.
**Western blotting**

Various protein samples were run on 6-18% SDS-PAGE under reducing conditions and blotted onto nitrocellulose membrane. K70018_11E5 at 1 µg/mL was used as the primary antibody and peroxidase conjugated goat anti-mouse IgG was used as the secondary antibody. CD83 band was visualized using ECL Western Blotting Substrate.

Lane 1: 15 µg of Raji lysate  
Lane 2: 15 µg of U-937 lysate  
Lane 3: 15 µg of Jurkat lysate  
Lane 4: 15 µg of HEK-293 lysate

Result: K70018_11E5 can detect human CD83 by Western blotting.

**Immunohistochemistry**

IHC-P analysis of human tonsil tissue by anti-human CD83 antibody (K70018_11E5).

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 CD83 primary antibody (K70018_11E5) 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 cytoplasm and cell membrane.