Recombinant Anti-Human PCNA Antibody [K29023_9D5]

Catalog No. RCC023C09D05C

Overview

<table>
<thead>
<tr>
<th>Product name</th>
<th>Recombinant Anti-Human PCNA Antibody [K29023_9D5]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antibody specificity</td>
<td>Proliferating cell nuclear antigen (PCNA)</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>K29023_9D5</td>
</tr>
<tr>
<td>Host / isotype</td>
<td>Human / IgG1</td>
</tr>
<tr>
<td>Immunogen</td>
<td>Recombinant human PCNA</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

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<tr>
<th>Application</th>
<th>Recommended concentration</th>
<th>Note</th>
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<tr>
<td>Western blot (WB)</td>
<td>5 µg/mL</td>
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<td>Indirect ELISA</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

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<th>Target antigen</th>
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<tr>
<td>Protein name: Proliferating cell nuclear antigen</td>
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<tr>
<td>Gene name: PCNA</td>
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<tr>
<td>UniProt Accession: P12004</td>
</tr>
<tr>
<td>Organism: Homo sapiens (Human)</td>
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Western blotting

15 µg of MOLT-4 lysate was run on 6-18% SDS-PAGE under reducing conditions and blotted onto nitrocellulose membrane. K29023_9D5 at 5 µg/mL was used as the primary antibody and peroxidase conjugated goat anti-mouse IgG was used as the secondary antibody. PCNA band was visualized using ECL Western Blotting Substrate.

Result: K29023_9D5 can detect human PCNA by Western blotting.

Immunoprecipitation

Immunoprecipitation was performed by incubation of 2.5 µg K29023_9D5 with MOLT-4 lysate containing 200 µg total protein. After absorption with Protein G beads, the mixture was run on 6-18% SDS-PAGE and blotted onto nitrocellulose membrane. Anti-human PCNA (K29023_7F12) at 1 µg/mL was used as the primary antibody and peroxidase conjugated goat anti-mouse IgG (Fc specific) was used as the secondary antibody. The isotype control antibody was KT82.

Lane 1: MOLT-4 lysate
Lane 2: Human PCNA immunoprecipitated from MOLT-4 lysate by K29023_9D5
Lane 3: The same as Lane 2 but KT82 was used as IgG isotype control antibody

Result: K29023_9D5 can immunoprecipitate human PCNA.