Anti-Human TNF Antibody [K03008_3A9]

Catalog No. K03008R03A09C

Overview

<table>
<thead>
<tr>
<th>Product name</th>
<th>Anti-Human TNF Antibody [K03008_3A9]</th>
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</thead>
<tbody>
<tr>
<td>Antibody specificity</td>
<td>Tumour necrosis factor (TNF-alpha, TNFα)</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>K03008_3A9</td>
</tr>
<tr>
<td>Host / isotype</td>
<td>Rat / IgG2a</td>
</tr>
<tr>
<td>Immunogen</td>
<td>Recombinant human TNF</td>
</tr>
<tr>
<td>Cross reactivity</td>
<td>Not tested</td>
</tr>
</tbody>
</table>

Kinetic characterization by BLI (biolayer interferometry)

- Association rate constant ($k_{on}$): $1.76 \times 10^5$ M$^{-1}$s$^{-1}$
- Dissociation rate constant ($k_{off}$): $1.39 \times 10^{-4}$ s$^{-1}$
- Equilibrium dissociation constant ($K_D$): $7.09 \times 10^{-10}$ M

Purification

Protein G 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>Application</th>
<th>Recommended concentration</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western blot (WB)</td>
<td>1 µg/mL</td>
<td></td>
</tr>
<tr>
<td>Indirect ELISA</td>
<td>1 µg/mL</td>
<td></td>
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</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: Tumor necrosis factor
- Gene name: TNF
- UniProt Accession: P01375
- Organism: Homo sapiens (Human)

Product data

**Western blotting**

25 ng of recombinant human TNF was run on 6-18% SDS-PAGE under reducing conditions and blotted onto nitrocellulose membrane. K03008_3A9 at 1 µg/mL was used as primary antibody and peroxidase conjugated goat anti-rat IgG was used as secondary antibody. TNF-alpha band was visualized using ECL Western Blotting Substrate.

Result: K03008_3A9 can detect recombinant human TNF-alpha by Western blotting.