Anti-Human CSF2 Antibody [K16248_4E2]

Catalog No. K16248U04E02C

Overview

Product name: Anti-Human CSF2 Antibody [K16248_4E2]
Antibody specificity: Granulocyte-macrophage colony-stimulating factor (GM-CSF, CSF2)
Species reactivity: Human
Clonality: Monoclonal
Clone number: K16248_4E2
Host / isotype: Mouse / IgG1
Immunogen: Recombinant human CSF2
Cross reactivity: Not tested

Kinetic characterization by BLI (biolayer interferometry):
- Association rate constant ($k_{on}$): $2.18 \times 10^6 \text{ M}^{-1}\text{s}^{-1}$
- Dissociation rate constant ($k_{off}$): $2.20 \times 10^{-3} \text{ s}^{-1}$
- Equilibrium dissociation constant ($K_D$): $1.01 \times 10^{-9} \text{ M}$

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:
- Shipped at ambient temperature. Avoid repeated freeze-thaw cycles.
- Upon receipt, *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>
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<tr>
<th>Method</th>
<th>Recommended concentration</th>
<th>Note</th>
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</thead>
<tbody>
<tr>
<td>Indirect ELISA</td>
<td>1 µg/mL</td>
<td>K16248_4E2 can pair with peroxidase conjugated K16248_4C5 for sandwich ELISA. K16248_4E2 is used as the capture antibody.</td>
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<tr>
<td>Sandwich ELISA</td>
<td>3 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: Colony stimulating factor 2
- Gene name: CSF2
- UniProt Accession: P04141
- Organism: Homo sapiens (Human)

Paired antibody information:
- K16248_4E2 may pair with K16248_4C5, K16248_16A1 and KT227 for sandwich based immune assays.
Sandwich ELISA

Microtiter wells were coated with K16248_4E2 at 3 µg/mL as the capture antibody. Human CSF2 was used as the antigen. Peroxidase conjugated mouse anti-human CSF2 monoclonal antibody (K16248_4C5) was used as the detection antibody.

Result: K16248_4E2 and K16248_4C5 can be used as a matched antibody pair to detect and quantify the concentration of CSF2.