Anti-Human CXCL8 Antibody [KT212]

Catalog No. K06289U04B05C

Overview

Product name Anti-Human CXCL8 Antibody [KT212]
Antibody specificity C-X-C motif chemokine ligand 8 (Interleukin 8, IL-8)
Species reactivity Human
Clonality Monoclonal
Clone number KT212
Host / isotype Mouse / IgG1
Immunogen Recombinant human CXCL8
Cross reactivity KT212 does not cross-react with human IL1B, IL2, IL4, IL5, IL6, IL7, IL9, IL10, IL11, IL12, IL13, IL17A, CSF2, IFNA, IFNG, CCL2, KITLG and TNF.

Kinetic characterization by BLI (biolayer interferometry)
Association rate constant ($k_{on}$): $8.30 \times 10^4 \text{M}^{-1}\text{s}^{-1}$
Dissociation rate constant ($k_{off}$): $1.13 \times 10^{-3} \text{s}^{-1}$
Equilibrium dissociation constant ($K_D$): $1.36 \times 10^{-8} \text{M}$

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>
<thead>
<tr>
<th>Method</th>
<th>Recommended concentration</th>
<th>Note</th>
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</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>Sandwich ELISA</td>
<td>3 µg/mL</td>
<td>KT212 can pair with peroxidase conjugated KT213 for sandwich ELISA. KT212 is used as the capture antibody.</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: C-X-C motif chemokine ligand 8
Gene name: CXCL8
UniProt Accession: P10145
Organism: Homo sapiens (Human)

Paired antibody information
KT212 may pair with KT213 for sandwich based immune assays.
Western blotting
25 ng of recombinant human CXCL8 run on 6-18% SDS-PAGE under reducing conditions and blotted onto nitrocellulose membrane. KT212 at 1 µg/mL was used as the primary antibody and peroxidase conjugated goat anti-mouse IgG was used as the secondary antibody. CXCL8 band was visualized using ECL Western Blotting Substrate.
Result: KT212 can detect recombinant human CXCL8 by Western blotting.

Sandwich ELISA
Microtiter wells were coated with KT212 at 3 µg/mL as the capture antibody. CXCL8 was used as the antigen. Peroxidase conjugated mouse anti-human CXCL8 monoclonal antibody (KT213) was used as the detection antibody.
Result: KT212 and KT213 can be used as a matched antibody pair to detect and quantify the concentration of CXCL8.

Cross reactivity
Microtiter wells were coated with various human cytokines. KT212 was used as primary antibody and peroxidase conjugated goat anti-mouse IgG was used as the secondary antibody.
Result: KT212 does not cross-react with human IL1B, IL2, IL4, IL5, IL6, IL7, IL9, IL10, IL11, IL12, IL13, IL17A, CSF2, IFNA, IFNG, CCL2, KITLG and TNF.