Anti-Human IFNG Antibody [KT219]

Catalog No. K29001U06H04C

Overview

Product name          Anti-Human IFNG Antibody [KT219]
Antibody specificity  Interferon gamma
Species reactivity    Human
Clonality             Monoclonal
Clone number          KT219
Host / isotype        Mouse / IgG1
Immunogen            Recombinant human interferon gamma
Cross reactivity      KT219 does not cross-react with human IL1B, IL2, IL4, IL5, IL6, IL7, CXCL8, IL9, IL10, IL11, IL12, IL13, CSF2, IFNA, CCL2, KITLG and TNF.
Kinetic characterization by BLI (biolayer interferometry)  Association rate constant ($k_a$): 2.63 x 10^5 M$^{-1}$s$^{-1}$  
                                    Dissociation rate constant ($k_{d}$): 3.39 x 10^{-4} s$^{-1}$  
                                    Equilibrium dissociation constant ($K_D$): 1.29 x 10^{-9} 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>Application</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>
<td></td>
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<tr>
<td>Indirect ELISA</td>
<td>1 µg/mL</td>
<td></td>
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<tr>
<td>Sandwich ELISA</td>
<td>3 µg/mL</td>
<td>KT219 can pair with peroxidase conjugated KT218 for sandwich ELISA. KT219 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: Interferon gamma  
Gene name: IFNG  
UniProt Accession: P01579  
Organism: Homo sapiens (Human)

Paired antibody information  
KT219 may pair with K29001_1C9, K29001_1D8, KT218, KT219 and K29001_11F4 for sandwich based immune assays.
**Western blotting**

25 ng of recombinant human IFNG was run on 6-18% SDS-PAGE under reducing conditions and blotted onto nitrocellulose membrane. KT219 at 1 µg/mL was used as the primary antibody and peroxidase conjugated goat anti-mouse IgG was used as the secondary antibody. IFNG band was visualized using ECL Western Blotting Substrate.

Result: KT219 can detect recombinant human IFNG by Western blotting.

**Sandwich ELISA**

Microtiter wells were coated with KT219 at 3 µg/mL as the capture antibody. Recombinant human IFNG (Cat. P00705PA) was used as the antigen. Peroxidase conjugated mouse anti-human IFNG monoclonal antibody (KT218) was used as the detection antibody.

Result: KT219 and KT218 can be used as a matched antibody pair to detect and quantify the concentration of IFNG.

**Cross reactivity**

Microtiter wells were coated with various human cytokines. KT219 was used as the primary antibody and peroxidase conjugated goat anti-mouse IgG was used as the secondary antibody.

Result: KT219 does not cross-react with human IL1B, IL2, IL4, IL5, IL6, IL7, CXCL8, IL9, IL10, IL11, IL12, IL13, CSF2, IFNA, CCL2, KITLG and TNF.