**PRODUCT INFORMATION**

**Contents:** 100 µg purified anti-hTNF-α-hIgA2 antibody, provided azide-free and lyophilized.

**Target:** Human tumor necrosis factor-alpha

**Isotype:** Human IgA2

**Source:** Chinese hamster ovary (CHO) cells

**Purification:** Affinity chromatography with peptide M

**Formulation:** 0.2 µm filtered solution in TRIS buffer with glycine, saccharose and stabilizing agents.

**Tested applications:** Neutralization of hTNF-α signaling.

**Antibody resuspension**

*Note: Ensure you see the lyophilized pellet before resuspension.* Add 1 ml of sterile water to obtain a concentration of 0.1 mg/ml.

**Storage and stability**
- Product is shipped at room temperature. Store lyophilized product at -20°C. Avoid repeated freeze-thaw cycles.
- Human IgA2 isotype has been confirmed by ELISA.
- The neutralization of hTNF-α signaling pathway has been confirmed using cellular assays with the HEK-Blue™ TNF-α reporter cells.
- The absence of bacterial contamination (e.g. lipoproteins and endotoxins) has been confirmed using HEK-Blue™ TNFα reporter cells.

**Quality control**
- Human IgA2 isotype is negative for Bacterial contamination.
- Neutralization of hTNF-α signaling has been confirmed using QUANTI-Blue™ Solution, a SEAP detection medium. QUANTI-Blue™ Solution turns from pink to blue in the presence of SEAP. Thus, the neutralization of hTNF-α signaling by the anti-hTNF-α-hIgG1 can be assessed by the naked eye or by reading the OD at 620-655 nm with a spectrophotometer.

**APPLICATION**

Anti-hTNF-α-hIgA2 is a neutralizing antibody that blocks cellular activation induced by human TNF-α (hTNF-α). The concentration of antibody required to neutralize hTNF-α activity is dependent on the cytokine concentration, cell type and growth conditions.

**Neutralization assay**

InvivoGen has determined the concentration range for this antibody to block recombinant hTNF-α signaling using HEK-Blue™ TNF-α cells. These cells are HEK293 cells stably expressing an NF-κB-inducible SEAP (secreted embryonic alkaline phosphatase) reporter gene. Briefly, recombinant hTNF-α is incubated with increasing concentrations of anti-hTNF-α-hIgA2 for 30 minutes prior to the addition of HEK-Blue™ TNF-α cells. After overnight incubation, the neutralization of hTNF-α signaling by anti-hTNF-α-hIgA2 is determined by assessing SEAP activity in the culture supernatant using QUANTI-Blue™ Solution, a SEAP detection medium. QUANTI-Blue™ Solution turns from pink to blue in the presence of SEAP. Thus, the neutralization of hTNF-α signaling by the anti-hTNF-α-hIgG1 can be assessed by the naked eye or by reading the OD at 620-655 nm with a spectrophotometer.

**RELATED PRODUCTS**

**Product**

<table>
<thead>
<tr>
<th>Product</th>
<th>Catalog Code</th>
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<tbody>
<tr>
<td>Anti-hTNF-α-hIgG1</td>
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<td>Anti-hTNF-α-hIgG4</td>
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<td>Anti-β-Gal-hIgA2</td>
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<td>HEK-Blue™ TNF-α Cells</td>
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<td>hkd-tnfa</td>
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<tr>
<td>QUANTI-Blue™ Solution</td>
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<td>Recombinant human TNF-α</td>
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