

## IVMB0430

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### Product Information

<b>Product SKU:</b> IVMB0430	<b>Clone:</b> D2E7	<b>Target:</b> TNF alpha
<b>Size:</b> 100 µg		<b>Isotype:</b> Human IgG1k

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### Additional Information

<b>Reactivity:</b> Human	<b>Host Species:</b> Human
<b>Antibody Type:</b> Biosimilar Recombinant Human Monoclonal Antibody	<b>Expression Host:</b> HEK-293 Cells

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### Immunogen Information

**Background:** Adalimumab is a research-grade monoclonal antibody that works by inactivating tumor necrosis factor-alpha (TNF- $\alpha$ ). TNF- $\alpha$  is a 17.5 kD protein that mediates inflammation and immunity caused by the invasion of viruses, bacteria, and parasites by initiating a cascade of cytokines that increase vascular permeability, thus bringing macrophages and neutrophils to the site of infection. TNF- $\alpha$  secreted by the macrophage causes the blood to clot which provides containment of the infection. TNF- $\alpha$  inactivation has proven to be important in downregulating the inflammatory reactions associated with autoimmune diseases such as rheumatoid arthritis, psoriatic arthritis, ankylosing spondylitis, Crohn's disease, moderate to severe chronic psoriasis, and juvenile idiopathic arthritis. Adalimumab blocks the interaction with the p55 and p75 cell surface TNF receptors thus, neutralizing the biological function of TNF. Anti-Human TNF alpha (Adalimumab) utilizes the same variable regions from the therapeutic antibody Adalimumab making it ideal for research projects.

**Product Concentration:** 0.5 mg/ml

**Applications:** ELISA

**Synonyms:** DIF; TNFA; TNFSF2; TNLG1F; TNF-alpha

**Antigen Distribution:** TNF- $\alpha$  is secreted by macrophages, monocytes, neutrophils, T cells, B cells, NK cells, LAK cells.

<b>Immunogen:</b>	Human TNF alpha
<b>Formulation:</b>	This HRP-conjugated antibody is formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.2 - 7.4, 1% BSA. <b>(Warning: Use of sodium azide as a preservative will inhibit the enzyme activity of horseradish peroxidase)</b>
<b>Specificity:</b>	This non-therapeutic biosimilar antibody uses the same variable region sequence as the therapeutic antibody Adalimumab. Clone D2E7 binds to soluble TNF- $\alpha$ , but not to TNF- $\beta$ (lymphotoxin). This product is for research use only.
<b>Pathogen Testing:</b>	-
<b>Storage &amp; Handling:</b>	This horseradish peroxidase conjugated monoclonal antibody is stable when stored at 2-8°C. Do not freeze.