

# Product Datasheet

## TNF-alpha Antibody (J1D9) - Azide and BSA Free NBP2-47676-0.1mg

Unit Size: 0.1 mg

Store at -20 to -80C. Avoid freeze-thaw cycles.

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**NBP2-47676-0.1mg**

TNF-alpha Antibody (J1D9) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at -20 to -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	J1D9
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS
Target Molecular Weight	17 kDa

Product Description	
Description	<p>1.0 mg/ml of antibody purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS WITHOUT BSA &amp; azide. Also available at 200 ug/ml WITH BSA &amp; azide (NBP2-45332).</p> <p>Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C. Antibody is stable for 24 months. Non-hazardous.</p>
Host	Mouse
Gene ID	7124
Gene Symbol	TNF
Species	Human, Mouse (Negative)
Reactivity Notes	Does not react with Mouse.
Specificity/Sensitivity	<p>This antibody neutralizes TNF-alpha biological activities. It prevents TNF-alpha induced apoptosis in Jurkat cells. It also neutralizes HurTNF-mediated cytotoxicity of L929 cells and inhibits tumor growth in mice. It protects mice against toxicity of HurTNF. Tumor Necrosis Factor Alpha (TNF-alpha) is a protein secreted by lipopolysaccharide-stimulated macrophages, and causes tumor necrosis when injected into tumor bearing mice. TNF-alpha is believed to mediate pathogenic shock and tissue injury associated with endotoxemia. TNF-alpha exists as a multimer of two, three, or five non-covalently linked units, but shows a single 17kDa band following SDS PAGE under non-reducing conditions. TNF-alpha is closely related to the 25kDa protein Tumor Necrosis Factor beta (lymphotoxin), sharing the same receptors and cellular actions. TNF-alpha causes cytolysis of certain transformed cells, being synergistic with interferon gamma in its cytotoxicity. Although it has little effect on many cultured normal human cells, TNF-alpha appears to be directly toxic to vascular endothelial cells. Other actions of TNF-alpha include stimulating growth of human fibroblasts and other cell lines, activating polymorphonuclear neutrophils and osteoclasts, and induction of interleukin 1, prostaglandin E2 and collagenase production.</p>
Immunogen	Recombinant human TNF-alpha (Uniprot: P01375)

Product Application Details	
Applications	Flow Cytometry, Immunocytochemistry/ Immunofluorescence, CyTOF-ready, Immunofluorescence



<b>Recommended Dilutions</b>	Flow Cytometry 0.5 - 1 ug/million cells in 0.1 ml, Immunocytochemistry/Immunofluorescence 1-2 ug/ml, Immunofluorescence 1 - 2 ug/ml, CyTOF-ready
<b>Application Notes</b>	Inhibits Tumor Growth: Order Ab without BSA/Azide. Neutralizes TNF-alpha- Mediated Cytotoxicity: Order Ab without BSA/Azide. Protects Mice Against Toxicity of TNF-alpha. Order Ab without BSA/Azide. Optimal dilution for a specific application should be determined.



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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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