

## TNF-alpha Antibody [clone J2D10] (V2902)

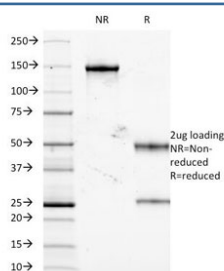
Catalog No.	Formulation	Size
V2902-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2902-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2902SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug



Citations (4)

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<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG1, kappa
<b>Clone Name</b>	J2D10
<b>Purity</b>	Protein G affinity chromatography
<b>UniProt</b>	P01375
<b>Localization</b>	Cytoplasmic and extracellular (secreted)
<b>Applications</b>	Flow Cytometry : 1-2ug/10 <sup>6</sup> cells Immunofluorescence : 1-2ug/ml Inhibits Tumor Growth (order BSA/sodium Azide-free Format) : Neutralizes RTNF- Mediated Cytotoxicity (order BSA/sodium Azide-free Format) : Protects Mice Against Toxicity Of RhTNF- (order BSA/sodium Azide-free Format) :
<b>Limitations</b>	This TNF-alpha antibody is available for research use only.



SDS-PAGE Analysis of Purified, BSA-Free TNF-alpha Antibody (clone J2D10). Confirmation of Integrity and Purity of the Antibody.

## Description

This antibody neutralises human TNF $\alpha$  mediated cytotoxicity of L929 cells and inhibits tumour growth in mice. It protects mice against toxicity of hTNF $\alpha$ . 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.

## Application Notes

Optimal dilution of the TNF- $\alpha$  antibody should be determined by the researcher.

## Immunogen

Recombinant human protein was used as the immunogen for the TNF- $\alpha$  antibody.

## Storage

Store the TNF- $\alpha$  antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).