

Product Datasheet

TNF-alpha Antibody (J2D10)

NBP2-45333-0.1mg

Unit Size: 0.1 mg

Store at 4C.

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NBP2-45333-0.1mg

TNF-alpha Antibody (J2D10)

Product Information	
Unit Size	0.1 mg
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	J2D10
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein L purified
Buffer	10 mM PBS with 0.05% BSA
Target Molecular Weight	17 kDa

Product Description	
Description	200ug/ml of antibody purified by Protein L. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA at 1.0 mg/ml. (NBP2-47677) Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
Host	Mouse
Gene ID	7124
Gene Symbol	TNF
Species	Human, Rat, Mouse (Negative)
Reactivity Notes	Does not react with Mouse.
Specificity/Sensitivity	This antibody neutralizes Hu rTNFa mediated cytotoxicity of L929 cells and inhibits tumor growth in mice. It protects mice against toxicity of HurTNFa. 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.
Immunogen	Recombinant human TNF-alpha (Uniprot: P01375)

Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Block/Neutralize, Immunofluorescence
Recommended Dilutions	Western Blot, Flow Cytometry 1-2 ug/million cells, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Immunofluorescence 1 - 2 ug/ml, Block/Neutralize

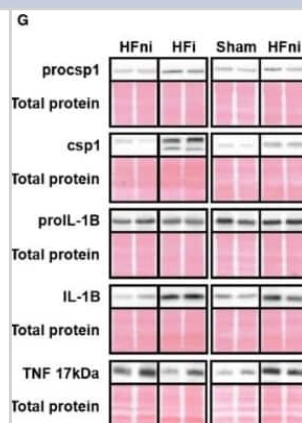


Application Notes

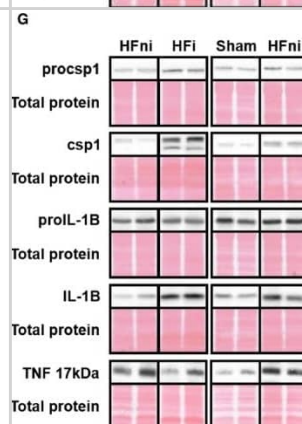
Inhibits Tumor Growth: Order Ab without BSA/Azide.
 Neutralizes TNF-alpha- Mediated Cytotoxicity: Order Ab without BSA/Azide.
 Protects Mice Against Toxicity of TNF-alpha. Order Ab without BSA/Azide.
 Optimal dilution for a specific application should be determined.

Images

Western Blot: TNF-alpha Antibody (J2D10) [NBP2-45333] - Analysis of pro-inflammatory signalling in left ventricle lysates. Representative immunoblots and total protein staining of procsp1, csp1, proIL-1beta, IL-1beta and TNF-alpha in sham-operated group (Sham), non-infarcted (HFni) and infarcted (HFi) tissue of failing hearts. Data are presented as mean +/- SEM; n = 6-9 per group; *P < 0.05 vs Sham; #P < 0.05 vs HFni
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Analysis of pro-inflammatory signalling in left ventricle lysates. A-F, quantification and G, representative immunoblots and total protein staining of procsp1, csp1, proIL-1 β , IL-1 β and TNF in sham-operated group (Sham), non-infarcted (HFni) and infarcted (HFi) tissue of failing hearts. Data are presented as mean \pm SEM; n = 6-9 per group; *P < 0.05 vs Sham; #P < 0.05 vs HFni

**Publications**

Lichy M, Szobi A, Hrdlicka J et al. Different signalling in infarcted and non-infarcted areas of rat failing hearts: A role of necroptosis and inflammation J. Cell. Mol. Med. 2019-07-21 [PMID: 31328381] (WB, Rat)



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Products Related to NBP2-45333-0.1mg

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NBP2-35076-10ug	Recombinant Human TNF-alpha Protein

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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