

# Product Datasheet

## TNF-alpha Antibody (J2D10) [PE] NBP2-47677PE

Unit Size: 0.1 ml

Store at 4C in the dark.

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**NBP2-47677PE**

TNF-alpha Antibody (J2D10) [PE]

| <b>Product Information</b>         |  |
|------------------------------------|--|
| <b>Unit Size</b>                   | 0.1 ml   |
| <b>Concentration</b>               | Please see the vial label for concentration. If unlisted please contact technical services.  |
| <b>Storage</b>                     | Store at 4C in the dark.   |
| <b>Clonality</b>                   | Monoclonal   |
| <b>Clone</b>                       | J2D10  |
| <b>Preservative</b>                | 0.05% Sodium Azide   |
| <b>Isotype</b>                     | IgG1 Kappa   |
| <b>Conjugate</b>                   | PE   |
| <b>Purity</b>                      | Protein A or G purified  |
| <b>Buffer</b>                      | PBS  |
| <b>Product Description</b>         |  |
| <b>Description</b>                 | This conjugate is made on demand. Actual recovery may vary from the stated volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet.  |
| <b>Host</b>                        | Mouse  |
| <b>Gene ID</b>                     | 7124   |
| <b>Gene Symbol</b>                 | TNF  |
| <b>Species</b>                     | Human, Rat, Mouse (Negative)   |
| <b>Reactivity Notes</b>            | Does not react with Mouse.   |
| <b>Specificity/Sensitivity</b>     | This antibody neutralizes Hu rTNF $\alpha$ mediated cytotoxicity of L929 cells and inhibits tumor growth in mice. It protects mice against toxicity of Hu rTNF $\alpha$ . 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. |
| <b>Immunogen</b>                   | Recombinant human TNF-alpha (Uniprot: P01375)  |
| <b>Product Application Details</b> |  |
| <b>Applications</b>                | Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, CyTOF-ready, Immunofluorescence   |
| <b>Recommended Dilutions</b>       | Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunofluorescence, CyTOF-ready   |
| <b>Application Notes</b>           | Optimal dilution of this antibody should be experimentally determined.   |



## Images

TNF-alpha Antibody (J2D10) [PE] [NBP2-47677PE] - Vial of PE conjugated antibody. PE has two excitation maxima, 498 nm excited by the Blue laser (488 nm) and 565 nm excited by the Yellow-Green laser (561 nm). Both result in emission at 578 nm.



PE

| LASER (nm) | FILTER |
|------------|--------|
| Blue (488) | 582/15 |
| Y-G (561)  |        |

| EXCITATION MAX (nm) | EMISSION MAX (nm) |
|---------------------|-------------------|
| 498                 | 578               |
| 565                 |                   |



### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NBP2-47677PE**

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|                    |  |
|--------------------|--|
| NBP1-43319PE-0.5ml | Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1) [PE] |
| NBP2-35076-10ug    | Recombinant Human TNF-alpha Protein                |
| M6000B-1           | IL-6 [HRP]   |
| 210-TA-005         | TNF-alpha [Unconjugated]                           |

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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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